



Lumineux

making light work

Lumineux
sports

truSmart
intelligent controls

Repm3[®]
reportable emergency

**Lighting solutions
tailored to you**



Welcome to Lumineux



Lumineux is a family run, UK based manufacturer and distributor of quality LED lighting products. We have been providing a superb range of commercial and industrial lighting solutions for over 35 years and are founded on an approach of high quality, innovation and dependability.



Our Values



Collaboration

Promoting collaboration and communication among employees to achieve common goals.



Family

Pride in being a family-run business with family values at our core.



Service

Prioritising the needs and satisfaction of customers, building long-term relationships.



Innovation

Continuously improving, developing and researching new ideas and new technologies.

Dedicated Internal & External ASM's

A dedicated internal & external sales team to ensure a more personalised service.

Project Sales Engineer

Expert guidance and site surveys performed by highly skilled lighting engineers.

Customer Service

Technical & support teams are available directly, to give you and your customers the best service before, during and after your order.

Next Day Delivery

Over £4m worth of stock available for next day delivery directly to you or your customer. Order before 4pm for guaranteed same day dispatch on stocked items.



Contact us: Call Us 01507 328031

Orders & Quotes:
✉ sales@lumineux.co.uk

Lighting Design:
✉ designs@lumineux.co.uk

Sales Returns:
✉ returns@lumineux.co.uk

Technical Support:
✉ technical@lumineux.co.uk

NEW

Belvide Track Lighting

Large Range of 240V & 48V
track lighting options

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Torside Anti-Vandal

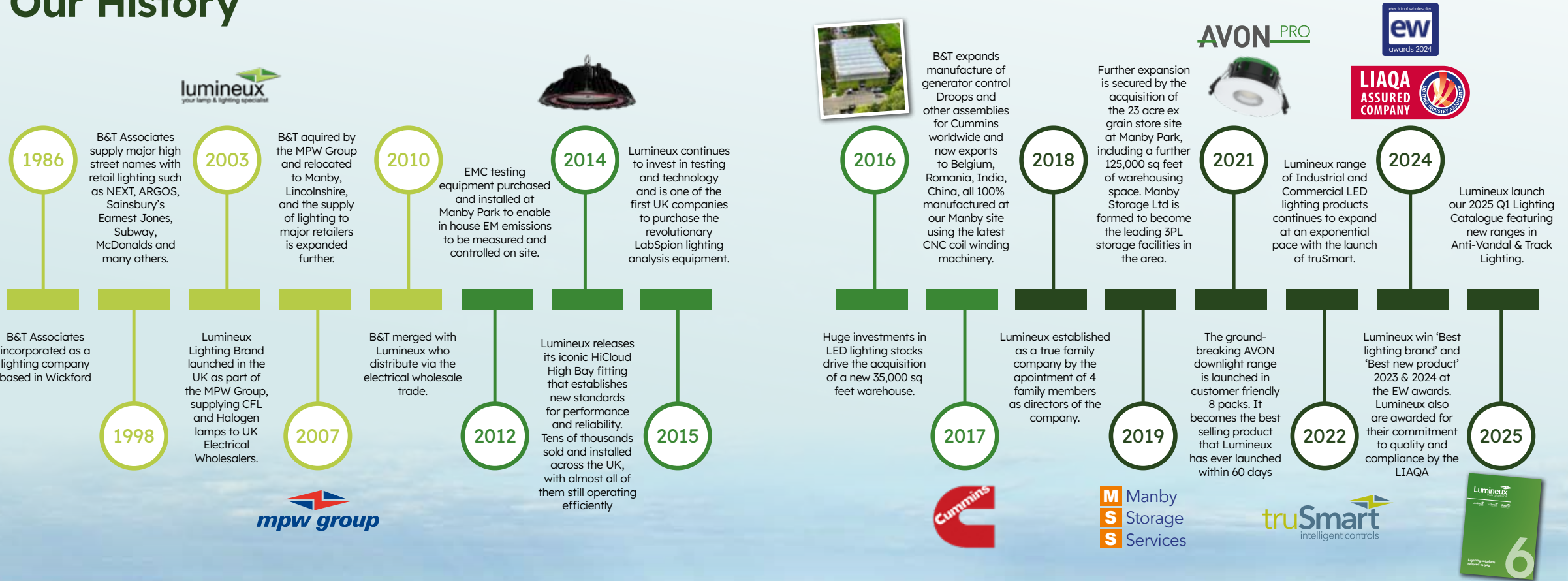
High-strength impact-resistant,
waterproof and tamper-proof
lighting options.

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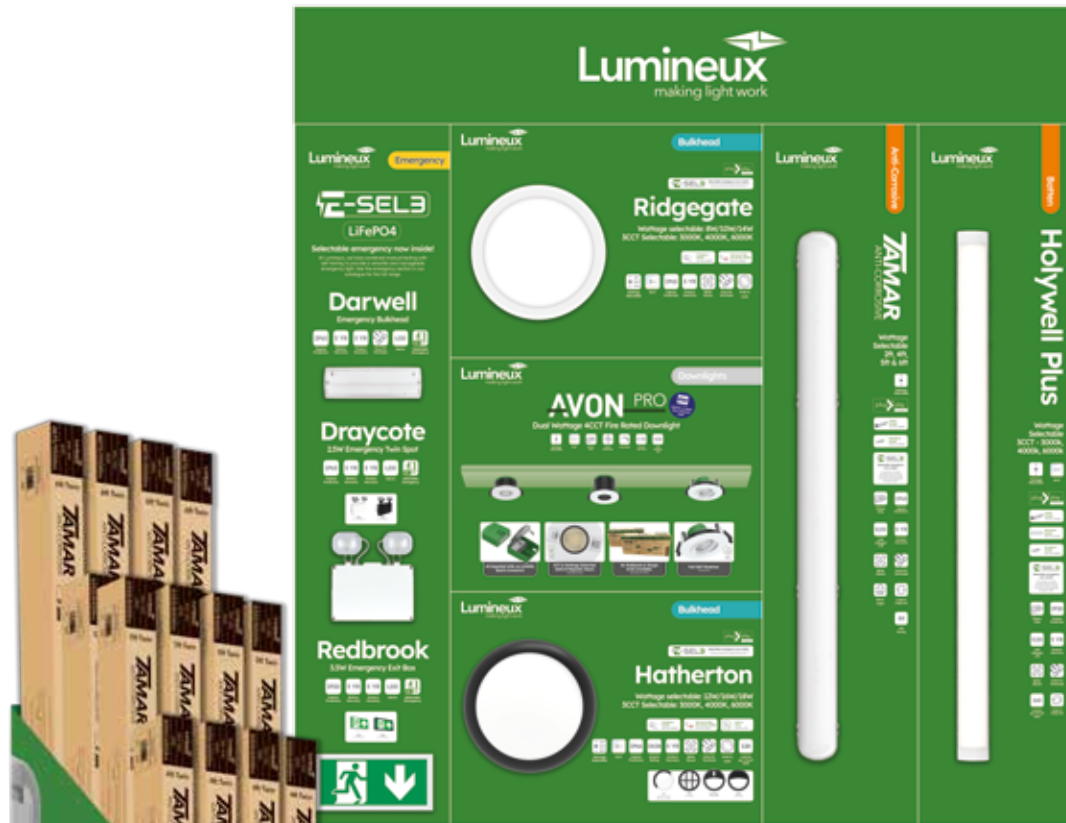
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Our History



How can we support you?



POS solutions

Point of Sale Foamex Panels and display boxes

We offer a range of point-of-sale panel options that come complete with light fitting, cable/connectors and slat wall bracket. Our POS options are a stylish and effective way of telling your customers what makes Lumineux products different.



Lighting Design

Our lighting designers can help provide the correct lighting for your building or outdoor space.



FREE Lighting Design Service

Lumineux offers a comprehensive and free lighting design service aimed at offering the right lighting solution, whilst also providing the very best energy and cost savings.



Site Survey Service

Lumineux's experts can provide a site survey to maximise your lighting needs, whilst offering the best solution for your budget and the right products for the right environment.



Return on Investment

Our ROI calculator factors variables, including maintenance and occupancy of the environment, to ensure a comprehensive payback calculation.

design@lumineux.co.uk





In-House Product Testing & Light Measuring



Here at Lumineux we use LabSpion, a complete light measurement solution covering all light sources from small lamps and LED chips to large panels and street lamps. The 2 axis goniometer enables the system to measure the full 3D distribution field of any lamp giving lighting professionals comprehensive LDT and IES simulation files.

VISO
SYSTEMS **LabSpion**

Warranties



Introducing Lumineux On-Site Warranty

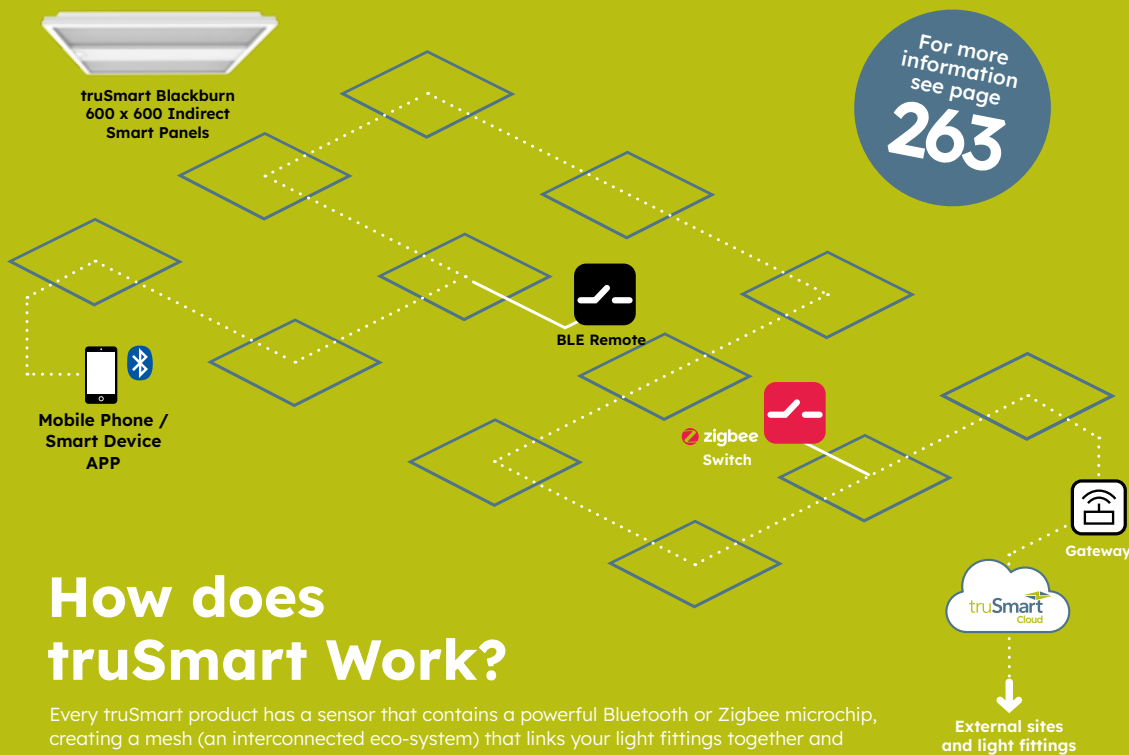
At Lumineux we're committed to delivering quality lighting solutions but also peace of mind. That's why we're excited to launch out on-site warranty for your projects. Registration is easy and can be completed within 90 days of products being purchased. Full terms and conditions for on-site warranty can be found on our website



lumineux.co.uk/warranty

What is truSmart?

truSmart is Lumineux's wireless, smart lighting solution – enabling you to control an individual fitting, room, floor or entire building from an app on your smart device. It can be retrofitted into existing systems using our smart drivers or as a new install through our smart fittings.



How does truSmart Work?

Every truSmart product has a sensor that contains a powerful Bluetooth or Zigbee microchip, creating a mesh (an interconnected eco-system) that links your light fittings together and enables you to control just a single light fitting, a whole floor of lights, an entire building or even multiple sites of internal and external lighting.

These sensors broadcast continuous messages to each other – creating a self healing mesh network, so that if one fitting were to be disconnected the mesh adapts and continues to run.

It's smart, it's energy efficient and it's scalable.

truSmart
intelligent controls

Why use truSmart?

Well, the first question should be...

“Why use smart lighting at all?”

Up to
80%
Energy Efficiency
Savings are achievable

The most efficient light is one that's turned off.

Obvious, I know...but the second most efficient is one that's only on when it's needed. Smart lighting enables you to manage when your lighting is on – meaning you only light what and when you need to.

LED Lighting

LED lighting is known for its energy-saving benefits, offering significant reductions in electricity consumption compared to traditional lighting sources. When coupled with smart controls, such as motion sensors, timers, and dimmers, LED lighting can achieve even greater energy savings. By dynamically adjusting light levels based on occupancy and natural light conditions, smart controls optimize energy usage, leading to more efficient illumination and substantial cost savings over time.

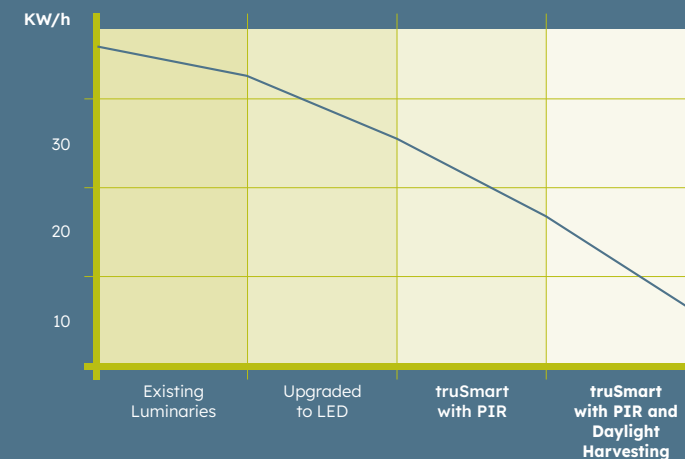
Cloud Solution

Escape the limitation from geography by embracing remote digital and visual management for multiple projects. Enhance operational and maintenance efficiency through real-time monitoring of device operation and energy consumption.

Scalability

Defining strength of Bluetooth and Zigbee Mesh technology, allowing it to effortlessly accommodate extensive networks comprising thousands of devices. The architecture and design of Bluetooth Mesh support this scalability, providing a robust foundation for large-scale deployments in various environments.

Maximise your energy savings





What is E-SEL3?

E-SEL3 gives the installer the option to select either a Self-Test or Manual emergency function while utilising the latest LiFePO4 battery technology.



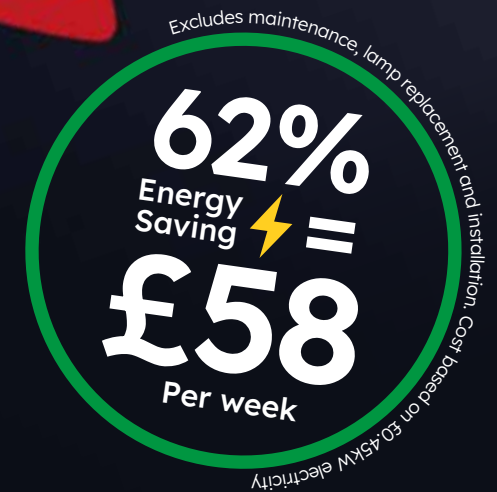
Where you see this logo, the product benefits from both Self-test and Manual Switching built in. We call it 'Emergency Selectable' or E-SEL3 for short.



Save with Lumineux

A **↑** **G** **A** Ultra Efficient

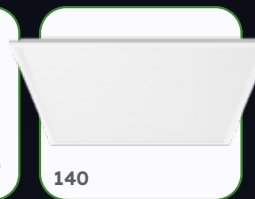
At Lumineux we're redefining efficiency of LED luminaires with our range of ultra efficient products. Our next-gen luminaires maximise lumens, energy saving and ROI, delivering performance you can count on.



172
Derwent



204
Frankly Plus



140
Wraysbury



74
Tempest



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Foremark Plus

RepM3

reportable emergency



**INNOVATIVE
EMERGENCY
LIGHTING
MANAGEMENT.**

Luminaire status monitoring

Real time reporting

Self-healing Mesh

Reliable

For more information see page **290**

Accelerating Carbon Reduction
Our RepM3 system helps organisations reach Net Zero 2030 goals by reducing the environmental impact of emergency lighting management. Remote monitoring cuts unnecessary site visits, reducing travel emissions and focusing only on critical maintenance.

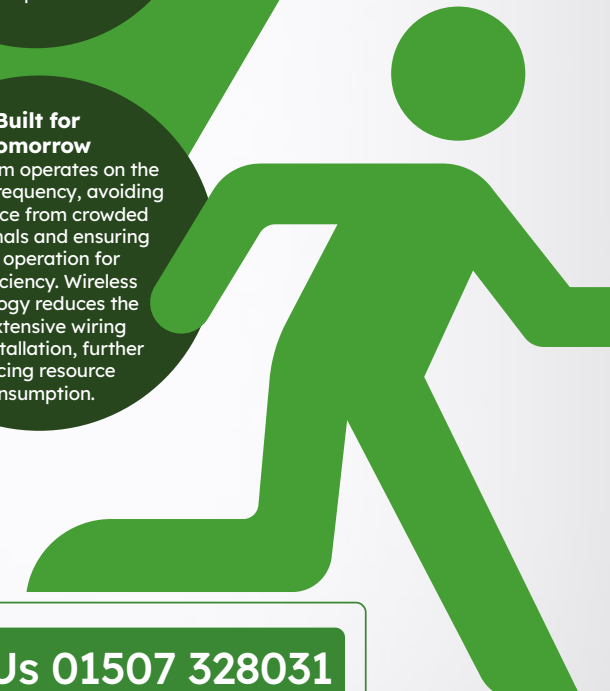
Energy Efficiency at its Core
RepM3 luminaires use energy-efficient LEDs and long-lasting LiFePO4 batteries to reduce energy use, waste, and frequent replacements. Automated testing and fault detection optimise energy use by eliminating manual processes.

Commitment to Green Innovation
RepM3 empowers businesses to transition toward greener operations while ensuring safety and compliance. This scalable solution supports industries like commercial offices, healthcare, education, and manufacturing in reaching sustainability goals effortlessly.

Built for Tomorrow
The system operates on the 868 MHz frequency, avoiding interference from crowded wireless signals and ensuring low-power operation for sustained efficiency. Wireless mesh technology reduces the need for extensive wiring during installation, further reducing resource consumption.



NET ZERO BY 2030
Driving Sustainability with RepM3



What is RepM3 reportable emergency?

Introducing RepM3, our wireless emergency lighting control system. Using a robust mesh network and DALI protocols, it ensures compliance and provides peace of mind. The local system stores compliance data, which can be retrieved via USB, while the Pro cloud version stores data and reports on your lighting's status. Failures are instantly reported with exact location details on a floorplan, enabling a fix-first maintenance visit.

Contact us:  **Call Us 01507 328031**

projects@lumineux.co.uk



What is Plug & Play?

Plug and play takes Lumineux's range to the next level with cross compatible emergency and sensor modules - fully replaceable, fully interchangeable - meaning your inventory just got a whole lot more streamlined.



E-SEL3



Plug & Play Selectable Emergency

All Lumineux Plug & Play enabled products feature our new E-SEL3 Selectable Emergency. Self-Test & Manual, multiple products - One Emergency Module.

Cross-Compatibility

Our Plug & Play modules are cross-compatible with multiple products! for example, our Linear emergency and sensor modules will work with our Tamar, Holywell and Typhoon. See each individual product for further information.



Microwave, Dusk to Dawn, truSmart and PIR Sensors

Our Plug & Play Sensor Range are straight out of the box - simply plug your sensor in to any of our compatible ranges and you're ready to go.



Minimal Inventory, Maximum Flexibility



The Award Winning AVON PRO



Magnetic Bezel Available

Dual Wattage 4CCT
Fire Rated Downlights

8x Multipack & Single Units
available with magnetic bezels

Bezel options available:
Black, Chrome or Brushed Chrome



- Quick connector with LENNEL lever terminal
- High efficiency at over 135 lm/W
- Wattage and 4CCT switch behind magnetic bezels
- Suitable for solid or stranded cable Ø 0.75 – 2.5mm2
- Meets STA Pattern Book fire test requirements
- Complies with parts B, C, E and L of Building Regulations
- Fully tested for 30, 60 and 90 minutes fire rated

Lumineux Rewards

Calling all Electrical Contractors



Claim



Earn



Redeem

Earn rewards from your Lumineux purchases!



1. Purchases

Simply upload your invoice to start earn your points



2. Projects

Once you install our products send us some pictures to earn.



Download here!



<http://www.Lumineuxrewards.co.uk/download>

Case Study



Wolves Training Centre

Working with the contractor, Lumineux's lighting design team built a solution to improve the coverage and cost effectiveness of the club's current set up. The training centre now has over 220 lights installed,

throughout the pitch, balcony, evaluation area and training room. The lighting has made an immediate impact, especially on the training pitch where the difference between the old and new lighting is clear to see.



Results

- Greater light coverage
- Higher illumination
- Improved efficiency

“Significant improvement in lighting coupled with a reduction in running costs.”

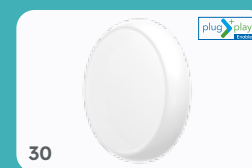
New Lights

Old Lights





Amenity



30

Ridgegate



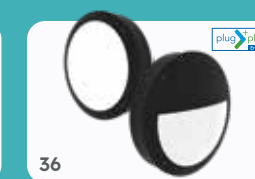
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Rutland



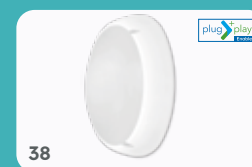
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Pebley



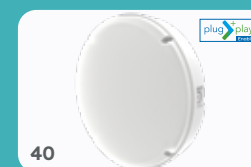
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Hurworth



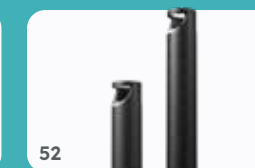
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Hawkridge



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Rydal



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Leighton



Innovation Meets Simplicity

8 Bulkheads 2 Modules 378 Possibilities

One click. Just Plug & Play.

Sustainable - Replacable - Adaptable

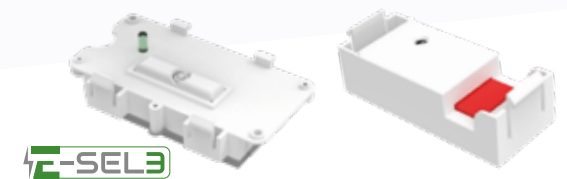
Luminaire's new range of LED Bulkheads makes installation truly effortless with our new Plug & Play technology.



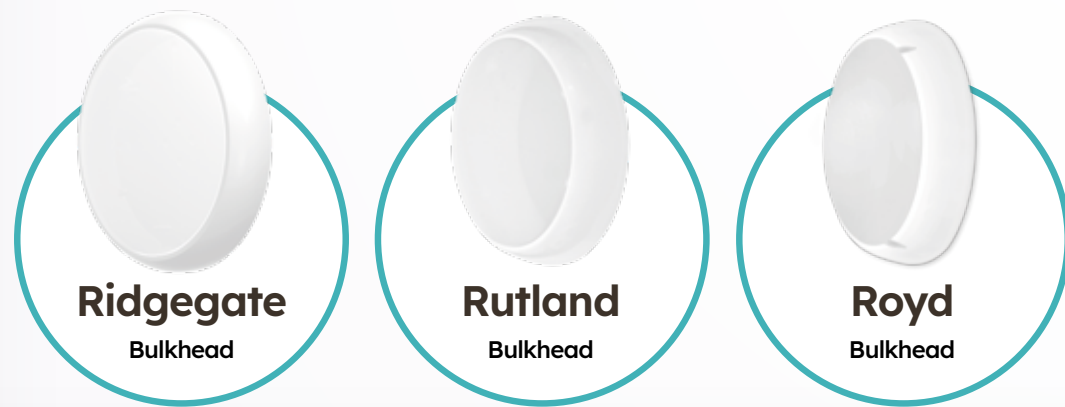
Cross compatible modules

The **Emergency module** is fully self-contained, with its own LED emergency light source, green indicator light, and a 5 year warranty LiFePO4 battery, that's easily accessible to replace.

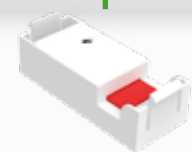
The **2-1 Sensor module** allows you to choose between on/off or step dim settings on the microwave sensor, allowing you to match the sensor to your specific application.



Cross-Compatibility Minimal Inventory = Maximum Flexibility



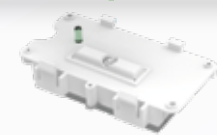

Our Emergency module benefits from both Self-test and Manual Switching built in. We call it 'Emergency Selectable' or E-SEL3 for short.



Part No.
431127

Microwave Step Dim Sensor Module

Our Plug & Play Sensor Range are straight out of the box - simply plug your sensor in to any of our compatible ranges and you're ready to go.



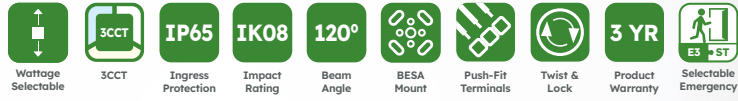
Part No.
430963

Plug & Play Selectable Emergency

All Lumineux Plug & Play enabled products feature our new E-SEL3 Selectable Emergency. Self-Test & Manual, multiple products - One Emergency Module.

Ridgegate

Wattage selectable: 8W/10W/14W
3CCT Selectable: 3000K, 4000K, 6000K



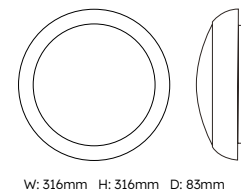
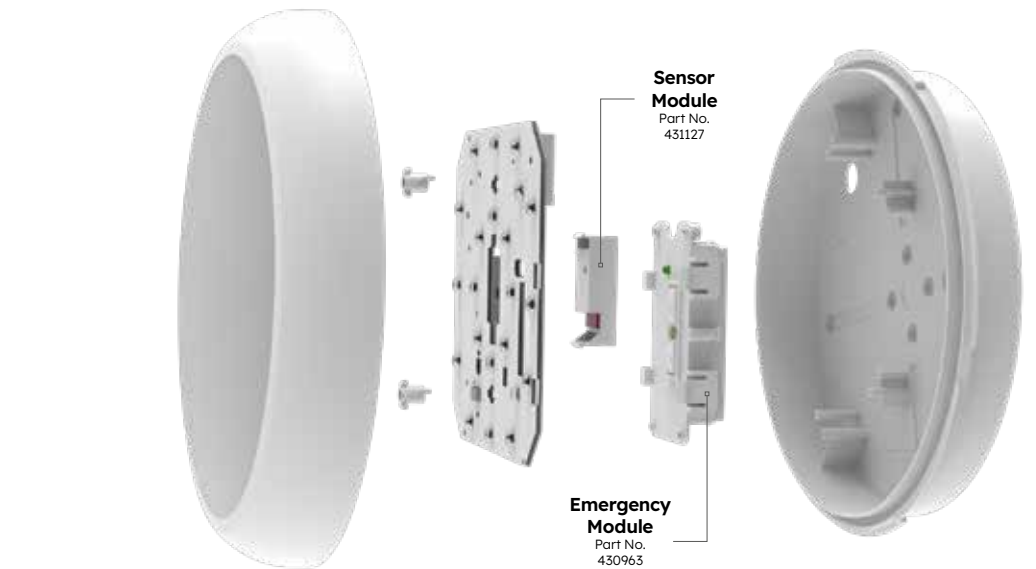
- Wattage Selectable feature
- Twist & Lock geartray for easier installation
- Tough and durable body with polycarbonate diffuser
- Wall and ceiling mount
- LED lifespan 40,000 hours L70
- Standard, emergency & microwave/step dim options available
- IK08 impact rated



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430150	Ridgegate Bulkhead - White	8W/10W/14W	3CCT	750/950/1350	95
430150-M3	Ridgegate Bulkhead - White Emergency	8W/10W/14W	3CCT	750/950/1350	95
430150-MW	Ridgegate Bulkhead - White Microwave	8W/10W/14W	3CCT	750/950/1350	95
430150-M3-MW	Ridgegate Bulkhead - White Emergency & Microwave	8W/10W/14W	3CCT	750/950/1350	95

Lumens based on 4000K

Option No.	Description
430963	Grafham Emergency Module
430963-E3	Grafham E-SEL3 Selectable Emergency Module **
431127	Alwen 2 in 1 Step Dim Microwave Sensor Module



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	2
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

**Available: June 2025

Rutland

Wattage selectable: 12W/16W/18W
3CCT Selectable: 3000K, 4000K, 6000K



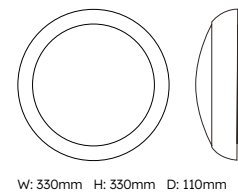
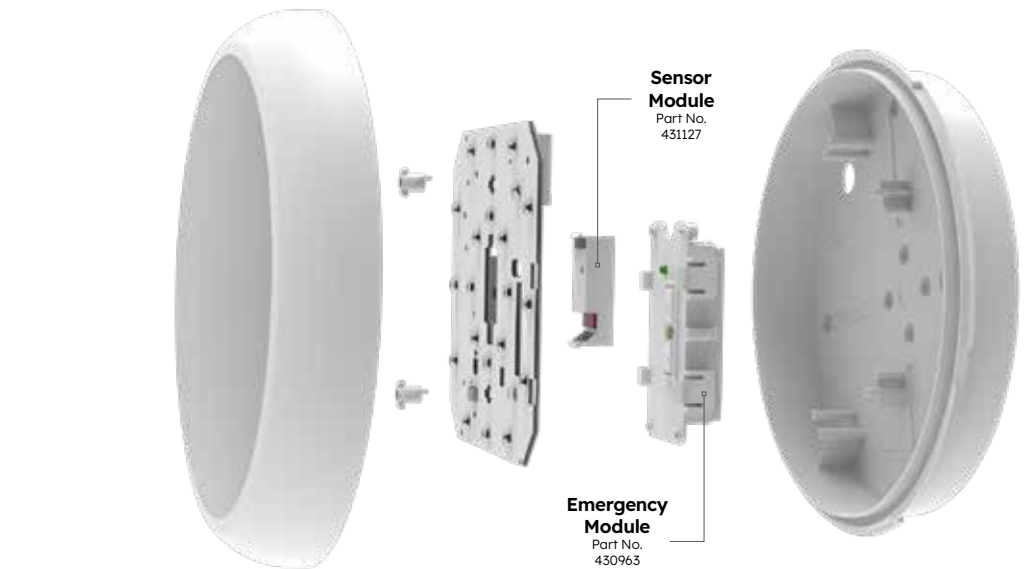
- Standard, microwave and emergency options available
- Tough and durable body with polycarbonate diffuser
- Wall and ceiling mount
- LED lifespan 60,000 hours L70



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431125	Rutland Bulkhead - White	12W/16W/18W	3CCT	1,200/1,600/1,800	110

Lumens based on 4000K

Option No.	Description
430963	Grafham Emergency Module
430963-E3	Grafham E-SEL3 Selectable Emergency Module **
431127	Alwen 2 in 1 Step Dim Microwave Sensor Module

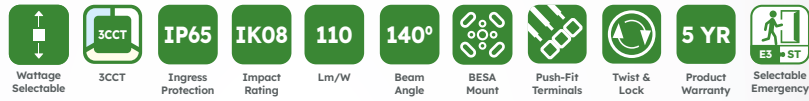


Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	2
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C
**Available: June 2025

Pebley

Wattage selectable: 12W/16W/18W
3CCT Selectable: 3000K, 4000K, 6000K



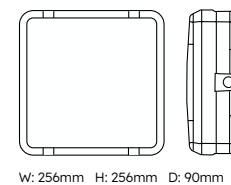
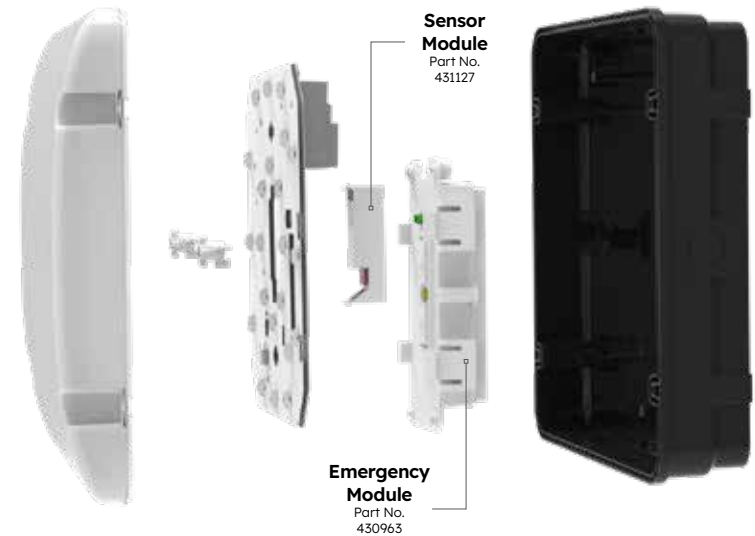
- Standard, microwave, emergency, dusk to dawn and 3 step dimming options available
- Tough and durable body with polycarbonate prismatic diffuser
- Wall and ceiling mount
- LED lifespan 60,000 hours L70
- X4 20mm conduit entry points



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431126-WH	Pebley Square Bulkhead - White	12W/16W/18W	3CCT	1,325/1,750/1,975	110
431126-BL	Pebley Square Bulkhead - Black	12W/16W/18W	3CCT	1,325/1,750/1,975	110

Lumens based on 4000K

Option No.	Description
430963	Grafham Emergency Module
430963-E3	Grafham E-SEL3 Selectable Emergency Module **
431127	Alwen 2 in 1 Step Dim Microwave Sensor Module



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	2
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

**Available: June 2025

Hollingworth

Wattage selectable: 12W/16W/18W
3CCT Selectable: 3000K, 4000K, 6000K



- Standard, step dim microwave, emergency and dusk to dawn available
- Tough and durable diecast body with polycarbonate diffuser
- Wall and ceiling mount
- LED lifespan 60,000 hours L70



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431129	Hollingworth Bulkhead Full - Black	12W/16W/18W	3CCT	900/1,200/1,350	75
431130	Hollingworth Bulkhead Eyelid - Black	12W/16W/18W	3CCT	600/800/960	50

Lumens based on 4000K

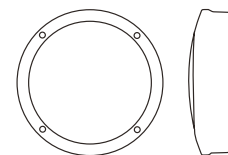
Option No.	Description
430963	Grafham Emergency Module
430963-E3	Grafham E-SEL3 Selectable Emergency Module **
431127	Alwen 2 in 1 Step Dim Microwave Sensor Module



Full
Part No.
431129



Eyelid
Part No.
431130



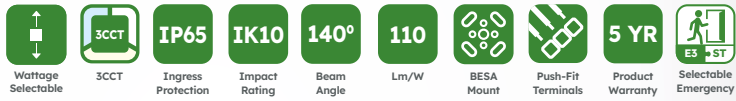
Full Bulkhead: 365mm x 365mm x 105mm
Eyelid Bulkhead: 365mm x 365mm x 110mm

Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C
**Available: June 2025

Royd

Wattage selectable: 12W/16W/18W
3CCT Selectable: 3000K, 4000K, 6000K



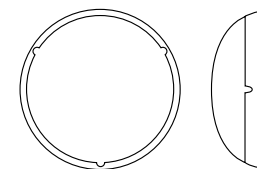
- Anti-Tamper Bulkhead
- Standard, step dim microwave and E3 emergency options available
- Tough and durable body with polycarbonate diffuser
- Wall and ceiling mount
- LED lifespan 60,000 hours L70
- IK10 impact rated
- Tamper proof screws



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431128	Royd Anti-Tamper Bulkhead - White	12W/16W/18W	3CCT	1,325/1,750/1,975	110

Lumens based on 4000K

Option No.	Description
430963	Grafham Emergency Module
430963-E3	Grafham E-SEL3 Selectable Emergency Module **
431127	Alwen 2 in 1 Step Dim Microwave Sensor Module



W: 305mm H: 305mm D: 110mm

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
Class	2
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

**Available: June 2025

Hatherton

Wattage selectable: 12W/16W/18W
3CCT Selectable: 3000K, 4000K, 6000K



- Standard, step dim microwave and emergency options available
- Tough and durable body with polycarbonate diffuser
- Wall and ceiling mount
- LED lifespan 60,000 hours L70
- X4 20mm conduit entry points



Emergency Module
Part No. 430963



Microwave Step
Dim Sensor Module
Part No. 431127

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431132	Hatherton Multi Bulkhead	12W/16W/18W	3CCT	1,450/1,800/1,950	124

Lumens based on 4000K

Option No.	Description
430963	Grafham Emergency Module
430963-E3	Grafham E-SEL3 Selectable Emergency Module **
431127	Alwen 2 in 1 Step Dim Microwave Sensor Module

Option No.	Description
401588	Clip on Full Bezel - White
401589	Clip on Full Bezel - Black
401598	Clip on Grill Bezel - Black
401595	Clip on Decorative Bezel - Black
401592	Clip on Eyelid Bezel - Black



Full
White
Part No. 401588
Black
Part No. 401589



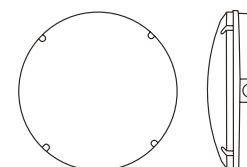
Grill
Part No. 401598



Decorative
Part No. 401595



Eyelid
Part No. 401592



W: 300mm H: 300mm D: 92mm

Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

**Available: June 2025

Howden Plus

Wattage selectable: 18W/22W/26W/30W
3CCT Selectable: 3000K, 4000K, 6000K



- Tough and durable polycarbonate housing
- Push fit terminals with loop in and loop out
- 200lm emergency option
- 3CCT switchable
- High efficiency, up to 130lm/W
- IK08 impact rated
- X4 20mm conduit entry points
- Ideal for stairwells



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431770	Howden Bulkhead	18W/22W/26W/30W	3CCT	2,350/2,850/3,375/3,900	130

Lumens based on 4000K

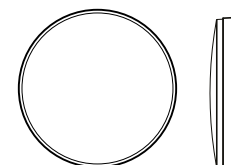
Option No.	Description
430963	Grafham Emergency Module
430963-E3	Grafham E-SEL3 Selectable Emergency Module **
431127	Alwen 2 in 1 Step Dim Microwave Sensor Module



White Bulkhead
Part No. 431770



Black Trim
Option No. 431771



W: 450mm H: 450mm D: 90mm

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	2
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

**Available: June 2025

Hurworth Mini

3CCT Selectable: 3000K, 4000K, 6000K

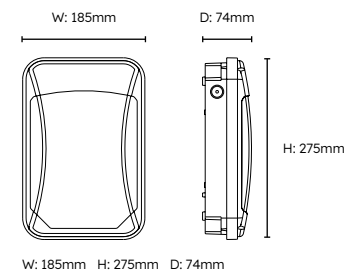


- Standard, emergency and dusk to dawn options available
- Tough body construction with polycarbonate diffuser
- LED lifespan 40,000 hours L70

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431200	Hurworth Mini Wallpack - Black	12W	3CCT	1,250	105

Lumens based on 4000K

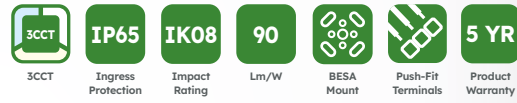
Option No.	Description
-M3	Emergency
-DD	Dusk to Dawn
-M3-DD	Emergency & Dusk to Dawn



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C



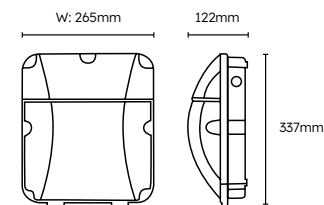
- Standard, emergency and dusk to dawn options available
- Hinged front cover for quick and easy installation
- Diecast body and tough polycarbonate diffuser
- LED lifespan 50,000 hours L70



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430196	Hurworth Wallpack - Black	30W	3CCT	2,700	90

Lumens based on 4000K

Option No.	Description
-E3	Emergency
-DD	Dusk to Dawn
-E3-DD	Emergency & Dusk to Dawn



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Hawkridge

Wattage selectable: 18W/28W
3CCT Selectable: 3000K, 4000K, 6000K



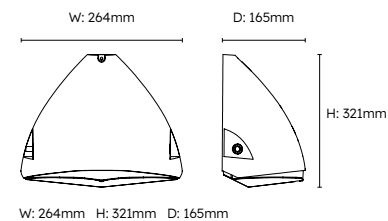
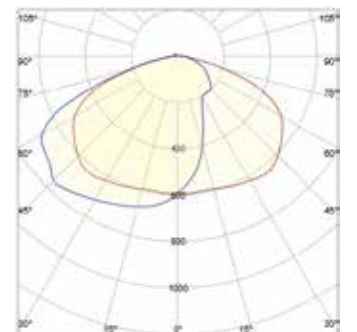
- Tough aluminium body with polycarbonate diffuser
- LED lifespan 50,000 hours L70
- Standard, emergency and dusk to dawn options available
- IK08 impact rated
- Selectable wattages

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430698	Hawkridge Asymmetric Wallpack - Black	18W/28W	3CCT	1,975/3,075	110

Option No.	Description
-M3	Emergency
-DD	Dusk to Dawn
-M3-DD	Emergency & Dusk to Dawn

*Lumens based on 4000K

Distribution Curve



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Rydal

Wattage selectable: 15W/22W/30W
3CCT Selectable: 3000K, 4000K, 5000K

NEW



- Wattage Selectable
- 3CCT
- IP65 Ingress Protection
- IK10 Impact Rating
- 150 Lm/W
- 80 CRI
- 60,000 LED Lifespan L70
- BESA Mount
- 5 YR Product Warranty



- Dusk to Dawn option built in as standard
- Hinged front provides quick access & ease of installation
- Product can be wall mounted over a standard round BESA box, providing efficient & secure dual sided conduit cable entry points
- Rydal wallpack is designed to reduce light pollution using Asymmetric optics, perfect for outdoor lighting
- 3CCT Selectable: 3000K, 4000K, 5000K
- Asymmetric optic - 70° x 140°



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431139	Rydal Wallpack - Black	15W/22W/30W	3CCT	2,250/3,300/4,500	150

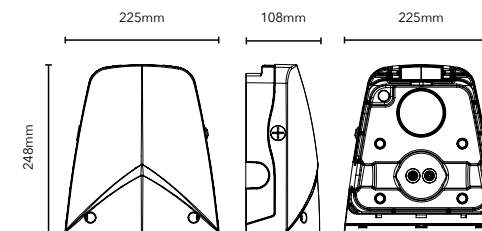
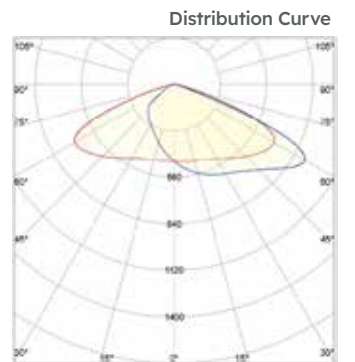
Lumens based on 4000K

Options available

-E3	E-SEL3 Emergency
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Conduit entry Points



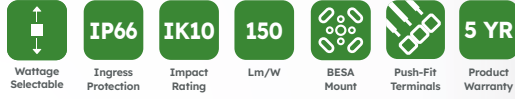
Technical Information

Input	220-240V AC
Operating Temp	-20°C - +45°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Leighton

Wattage selectable: 7W/11W/16W/24W
Bollards



- Tough aluminium body with polycarbonate optical lens
- LED lifespan 60,000 hours L70
- IK10 impact rated



Leighton
Bollard
Head

**500mm
Post with
Root Kit**
Part No: 430688

**900mm
Post with
Root Kit**
Part No: 430689

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431137	Leighton Bollard Head - Black	7W/11W/16W/24W	4000K	1,050/1,650/2,400/3,600	150
430688	Leighton Bollard Post 500mm with Root Kit - Black	-	-	-	-
430689	Leighton Bollard Post 900mm with Root Kit - Black	-	-	-	-

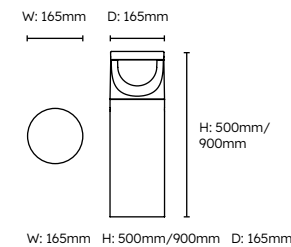
Option No.	Description
430692	Leighton Visor - Black



**Post
Mount Kit**
Included With
Post



**Leighton
Visor**
Part No: 430692



Technical Information	
Input	220-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	Flying lead 1.5m



Linear



60

Holywell



64

Sutton



68

Tamar



70

Typhoon



74

Tempest



80

Stanford



84

Olton



88

Welford



Cross compatible modules

The **Emergency module** featuring E-SEL3 technology with a 5 year warranty LiFeP04 battery. Designed for Plug & Play installation and easily replaceable.

The **Microwave Sensor module** allows you to easily attach a sensor to your fitting for simple on/off functionality, enabling you to match the sensor to your specific application.



Innovation Meets Simplicity

Cross Compatible Modules for our Anti-Corrosives and Battens.



**One click.
Just Plug & Play.**

Sustainable - Replacable - Adaptable

Lumineux's new range of LED Battens and Anti-Corrosives makes installation truly effortless with our new Plug & Play technology.

Cross-Compatibility Minimal Inventory = Maximum Flexibility



Part No.
430916

Linear Microwave Sensor

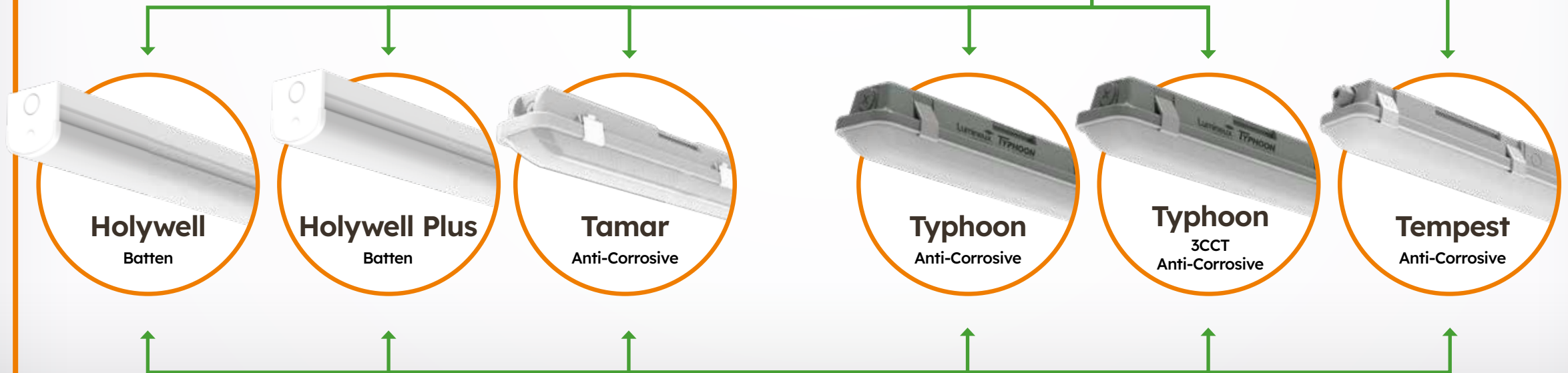
Our Plug & Play Sensor Range are straight out of the box – simply plug your sensor in to any of our compatible ranges and you're ready to go.



Part No.
431346

Tempest Microwave/ Step Dim Sensor

Choose between on/off or step dim settings allowing you to match the sensor to your specific application



Typhoon
Anti-Corrosive



Typhoon
3CCT
Anti-Corrosive



Tempest
Anti-Corrosive



Our Emergency module benefits from both Self-test and Manual Switching built in. We call it 'Emergency Selectable' or E-SEL3 for short.



Part No.
430962

Plug & Play Selectable Emergency

All Lumineux Plug & Play enabled products feature our new E-SEL3 Selectable Emergency. Self-Test & Manual, multiple products - One Emergency Module.

Holywell

Batten - Single & Twin



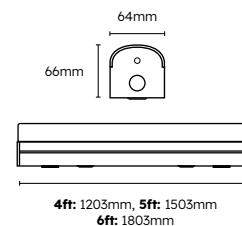
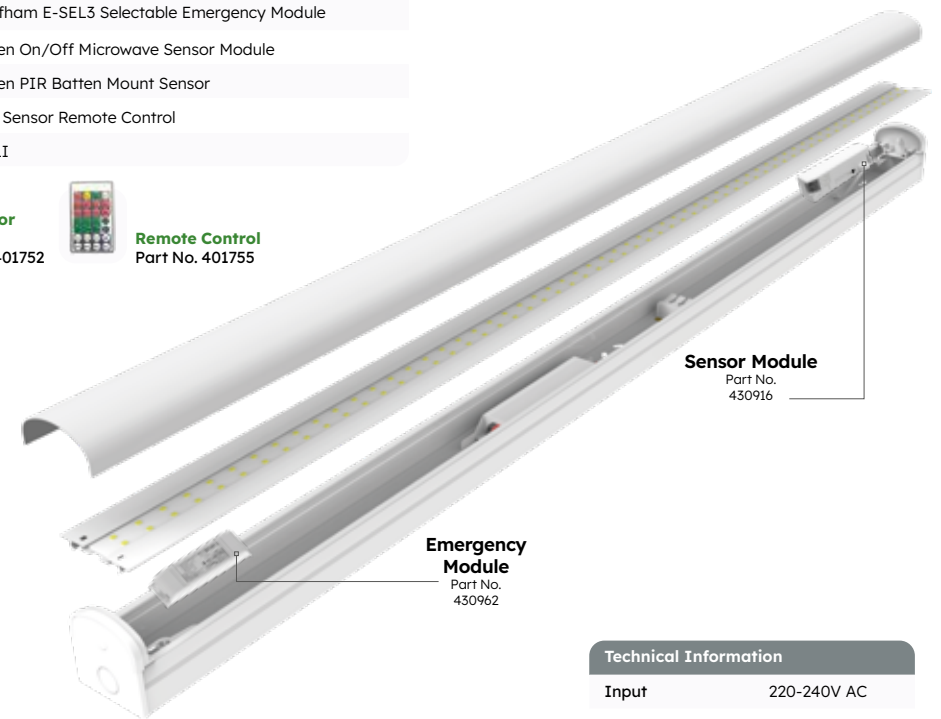
- Unique opal diffuser design for optimum performance and light distribution
- Steel body construction with powder coat finish
- Conduit entry points at both ends
- Suitable for central BESA mounting
- Additional screw to secure end cap
- 160 lm/W

THINK! LUMENS NOT WATTS



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431300	Holywell 4ft Single - White Plug & Play	19W	4000K	3,050	160
431301	Holywell 4ft Twin - White Plug & Play	30W	4000K	4,800	160
431302	Holywell 5ft Single - White Plug & Play	20W	4000K	3,200	160
431303	Holywell 5ft Twin - White Plug & Play	43W	4000K	6,875	160
431304	Holywell 6ft Single - White Plug & Play	30W	4000K	4,800	160
431305	Holywell 6ft Twin - White Plug & Play	50W	4000K	8,000	160

Option No.	Description
430962	Grafham E-SEL3 Selectable Emergency Module
430916	Alwen On/Off Microwave Sensor Module
401752	Alwen PIR Batten Mount Sensor
401755	PIR Sensor Remote Control
-DA	DALI



Technical Information	
Input	220-240V AC
Operating Temp	0°C - +30°C
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Holywell Plus

Wattage selectable: 18W/36W, 25W/50W, 28W/56W
3CCT Selectable: 3000K, 4000K, 6000K



Upgraded
Now 3CCT & Wattage
Selectable



- Single & Twin options
- Unique opal diffuser design for optimum performance and light distribution
- Steel body construction with powder coat finish
- Conduit entry points at both ends
- Suitable for central BESA mounting
- Additional screw to secure end cap
- 160 lumens per watt

NEW

THINK! LUMENS NOT WATTS

plug+play Enabled

E-SEL3
Emergency Module
Part No. 430962

Sensor Module
Part No. 430916

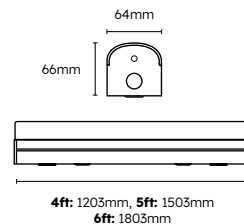
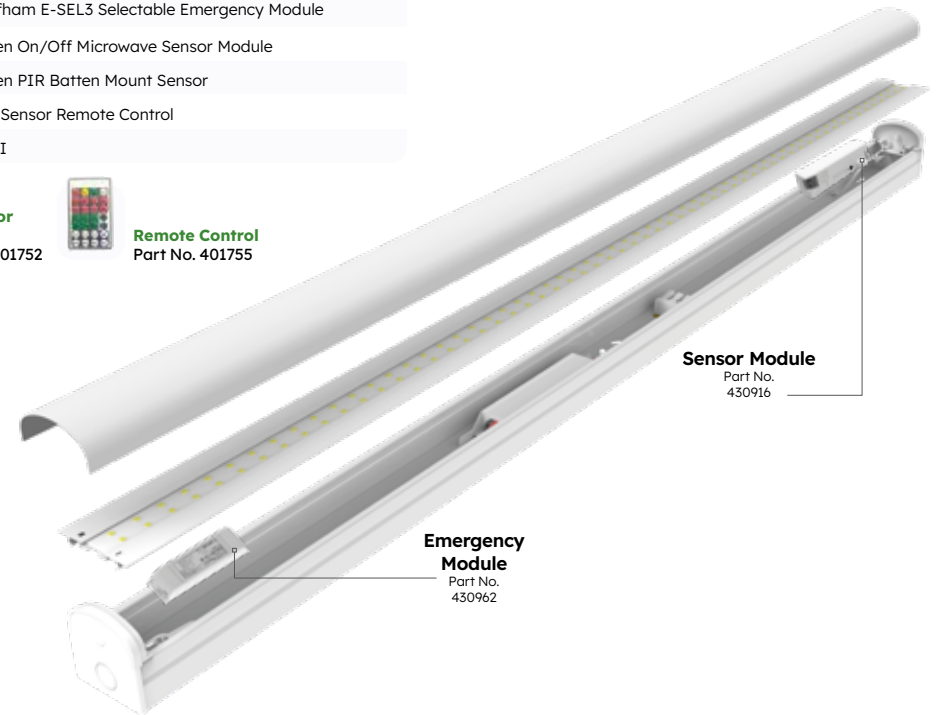
Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431291	Holywell 4ft Wattage Selectable - White Plug & Play	18W/36W	3CCT	2,900/5,750	160
431292	Holywell 5ft Wattage Selectable - White Plug & Play	25W/50W	3CCT	4,000/8,000	160
431293	Holywell 6ft Wattage Selectable - White Plug & Play	28W/56W	3CCT	4,500/8,975	160

Lumens based on 4000K

Option No.	Description
430962	Grafham E-SEL3 Selectable Emergency Module
430916	Alwen On/Off Microwave Sensor Module
401752	Alwen PIR Batten Mount Sensor
401755	PIR Sensor Remote Control
-DA	DALI

PIR Sensor Module
Part No. 401752

Remote Control
Part No. 401755



Technical Information

Input	220-240V AC
Operating Temp	0°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Sutton

Batten - Single & Twin Outputs



- IP20**
Ingress Protection
- 160**
Lm/W
- Flicker Free
- BESA Mount
- Push-Fit Terminals
- Loop in Loop out
- 50,000**
LED Lifespan L70
- 5 YR**
Product Warranty



- Frosted, ribbed polycarbonate diffuser to reduce glare
- Improved thermals utilising aluminium back PCBs
- H3 - High Output Emergency 440lm option available
- Additional screw to secure end cap
- Push fit terminals
- 20mm conduit entry



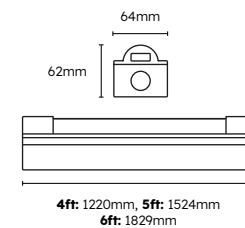
PIR Sensor Module
Part No. 401752



Remote Control
Part No. 401755

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430038	Sutton Batten 4ft Single - White	19W	4000K	2,737	160
430040	Sutton Batten 5ft Single - White	20W	4000K	4,124	160
430042	Sutton Batten 6ft Single - White	30W	4000K	5,480	160
430039	Sutton Batten 4ft Twin - White	38W	4000K	5,125	160
430041	Sutton Batten 5ft Twin - White	43W	4000K	6,257	160
430043	Sutton Batten 6ft Twin - White	50W	4000K	7,320	160

Option No.	Description	Lumens
-H3	High Output Emergency	440
401752	Alwen On/Off Microwave Sensor Module	
401755	PIR Sensor Remote Control	
-DA	DALI	



Technical Information

Input	220-240V AC
Operating Temp	0°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Sutton Plus

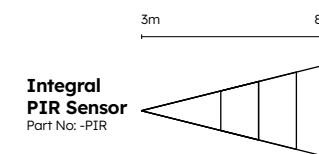
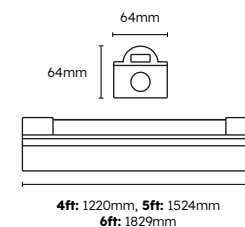
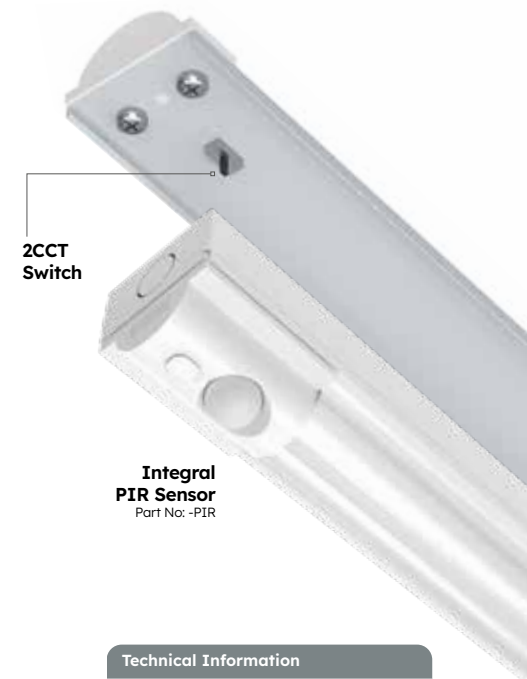
2CCT Selectable: 4000K & 6000K
Batten - Single & Twin Output



- Frosted, ribbed polycarbonate diffuser to reduce glare
- Improved thermals utilising aluminium back PCBs
- Push fit terminals
- 20mm conduit entry
- Additional screw to secure end cap
- H3 - High Output Emergency 440lm option available

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430402	Sutton Plus 2CCT Batten 4ft Single - White	19W	2CCT	2,819/2,755	160
430395	Sutton Plus 2CCT Batten 5ft Single - White	27W	2CCT	4,463/4,433	160
430397	Sutton Plus 2CCT Batten 6ft Single - White	38W	2CCT	5,467/5,472	160
430403	Sutton Plus 2CCT Batten 4ft Twin - White	38W	2CCT	5,253/5,162	160
430396	Sutton Plus 2CCT Batten 5ft Twin - White	50W	2CCT	6,087/6,100	160
430398	Sutton Plus 2CCT Batten 6ft Twin - White	60W	2CCT	7,617/7,502	160

Options available	Lumens
-H3 High Output Emergency	440
-PIR Integral PIR	
-H3-PIR High Output Emergency & Integral PIR	440



Technical Information

Input	220-240V AC
Operating Temp	0°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Tamar

Wattage selectable: 10W/20W, 20W/40W, 25W/50W, 30W/60W
Anti-Corrosive - Single & Twin Output



TAMAR ANTI-CORROSIVE



- Up to 160lm/W output performance
- Loop in - Loop out push-fit terminals
- Pre-threaded M20 cable entry
- Designed for easy and rapid installation
- Multiple conduit entry points

THINK! LUMENS
NOT WATTS

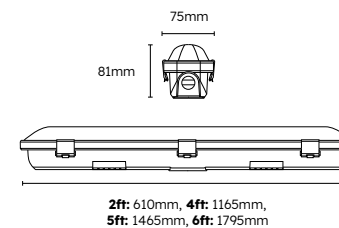
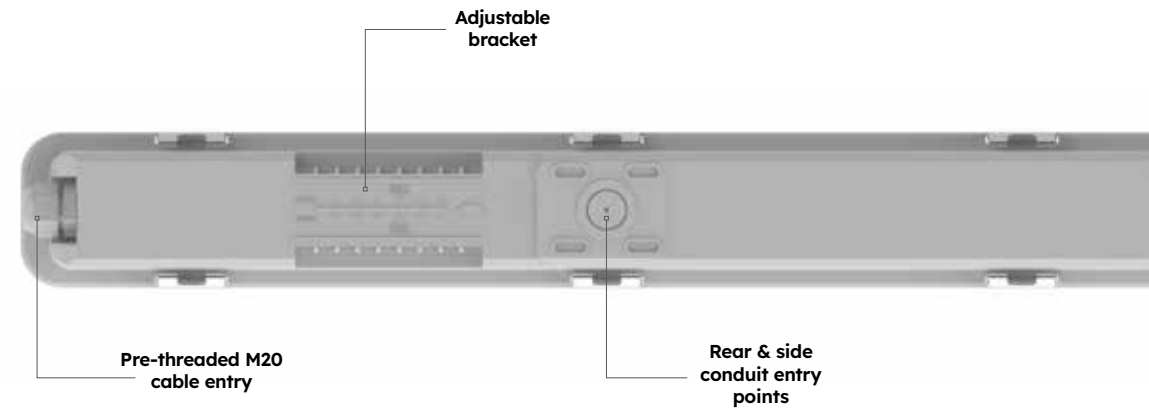
plug+play
Enabled

E-SEL3
Emergency
Module
Part No. 430962

Sensor Module
Part No. 430916

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431350	Tamar Anti-Corrosive 2ft Wattage Selectable Plug & Play	10W/20W	4000K	1,500/3,000	150
431351	Tamar Anti-Corrosive 4ft Wattage Selectable Plug & Play	20W/40W	4000K	3,200/6,400	160
431352	Tamar Anti-Corrosive 5ft Wattage Selectable Plug & Play	25W/50W	4000K	4,000/8,000	160
431353	Tamar Anti-Corrosive 6ft Wattage Selectable Plug & Play	30W/60W	4000K	4,800/9,600	160

Option No.	Description
430962	Grafham E-SEL3 Selectable Emergency Module
430916	Alwen On/Off Microwave Sensor Module



Technical Information

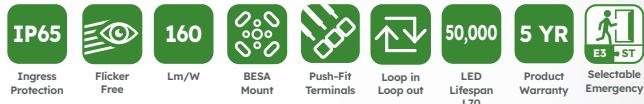
Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

NEW

Typhoon

Anti-Corrosive Single & Twin Output



TYPHOON ANTI-CORROSIVE



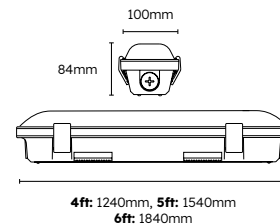
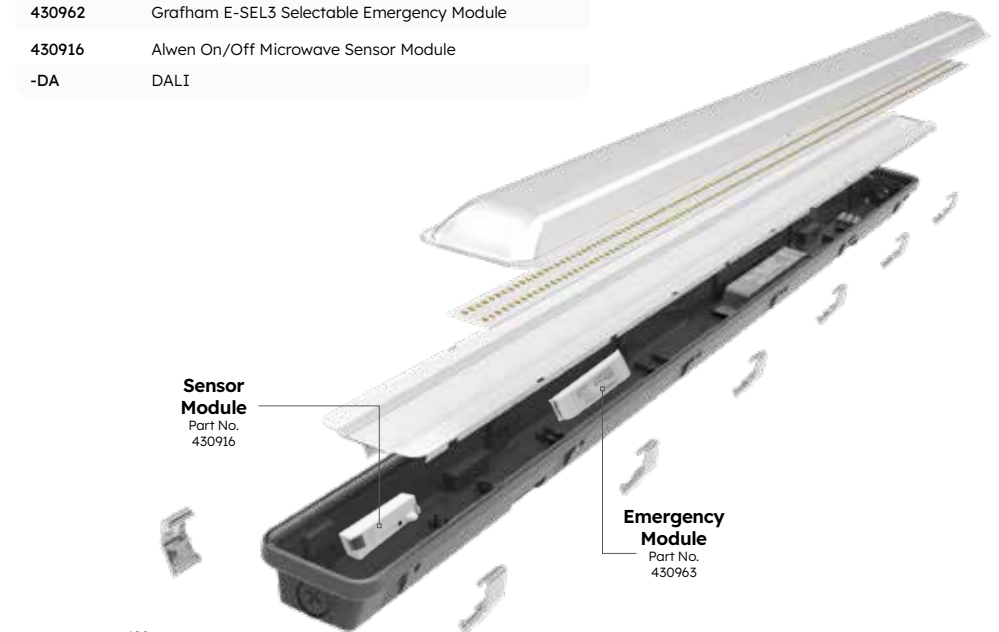
- Unique opal diffuser design for optimum performance and light distribution
- 160 lumens per watt
- Conduit entry points at both ends
- Suitable for central BESA mounting
- Pre threaded M20 cable entry

THINK! LUMENS NOT WATTS



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431310	Typhoon Anti-Corrosive 4ft Single Plug & Play	19W	4000K	3,038	160
431311	Typhoon Anti-Corrosive 4ft Twin Plug & Play	30W	4000K	5,168	160
431312	Typhoon Anti-Corrosive 5ft Single Plug & Play	20W	4000K	3,694	160
431313	Typhoon Anti-Corrosive 5ft Twin Plug & Play	43W	4000K	7,012	160
431314	Typhoon Anti-Corrosive 6ft Single Plug & Play	30W	4000K	4,948	160
431315	Typhoon Anti-Corrosive 6ft Twin Plug & Play	50W	4000K	8,186	160

Option No.	Description
430962	Grafham E-SEL3 Selectable Emergency Module
430916	Alwen On/Off Microwave Sensor Module
-DA	DALI



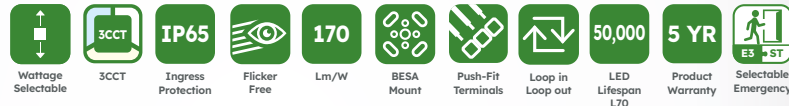
Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Typhoon 3CCT

Wattage selectable: 18W/36W, 25W/50W, 28W/56W
3CCT Selectable: 4000K, 5000K, 6000K



TYPHOON ANTI-CORROSIVE



Upgraded
Now 3CCT & Wattage
Selectable



- Single & Twin Outputs
- Unique opal diffuser design for optimum performance and light distribution
- Conduit entry points at both ends
- Suitable for central BESA mounting
- Pre threaded M20 cable entry
- 170 lumens per watt

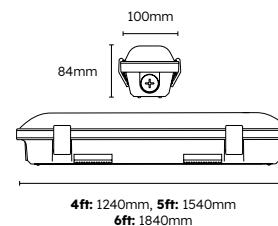
THINK! LUMENS
NOT WATTS



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431317	Typhoon Anti-Corrosive 4ft Wattage Selectable Plug & Play	18W/36W	3CCT	3,050/6,125	170
431318	Typhoon Anti-Corrosive 5ft Wattage Selectable Plug & Play	25W/50W	3CCT	4,250/8,500	170
431319	Typhoon Anti-Corrosive 6ft Wattage Selectable Plug & Play	28W/56W	3CCT	4,750/9,500	170

*Lumens based on 4000K

Option No.	Description
430962	Grafham E-SEL3 Selectable Emergency Module
430916	Alwen On/Off Microwave Sensor Module
-DA	DALI



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

NEW

Tempest

Wattage selectable: 18W/36W, 26W/44W, 33W/62W
2CCT Selectable: 4000K & 5000K

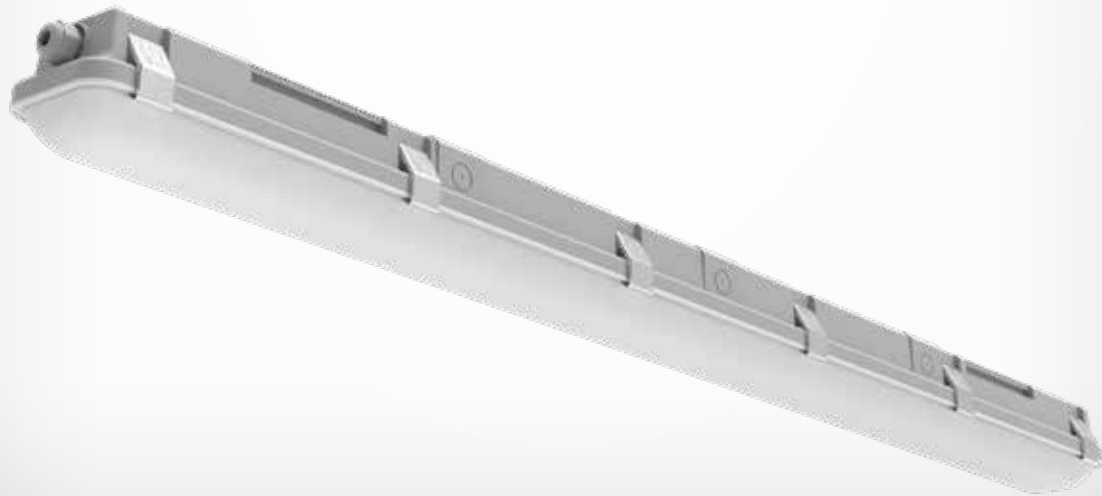
NEW

A Ultra Efficient

2CCT
 IP65 Ingress Protection
 Flicker Free
 185 Lm/W
 BESA Mount
 Push-Fit Terminals
 Loop in Loop out
 70,000 LED Lifespan L70
 5 YR Product Warranty
 Selectable Emergency

TEMPEST

ANTI-CORROSIVE



- Up to 185lm/W output performance
- Opal Diffuser
- Wattage Selectable and 2CCT
- Pre-threaded M20 cable entry
- Designed for easy and rapid installation

THINK! LUMENS NOT WATTS

plug+play Enabled

E-SEL3
Emergency Module
Part No. 430962

Microwave/Step Dim Sensor Module
Part No. 431346

Remote
Part No. 430904

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431340	Tempest Anti-Corrosive 4ft Wattage Selectable Plug & Play	18W/36W	2CCT	3,250/6,475	180
431341	Tempest Anti-Corrosive 5ft Wattage Selectable Plug & Play	26W/46W	2CCT	4,800/8,275	185
431342	Tempest Anti-Corrosive 6ft Wattage Selectable Plug & Play	33W/62W	2CCT	6,100/11,150	185

Option No.	Description
430962	Grafham E-SEL3 Selectable Emergency Module
431346	Alwen Linear Microwave/Step Dim Plug & Play Sensor
430904	Remote Control
-DA	DALI

truSmart
Compatible

Alwen Plug & Play Linear Microwave/Step Dim sensor

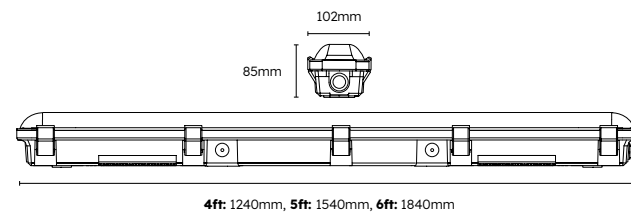
5 YR Product Warranty
 Microwave
 Step Dim



plug+play Enabled

Part No.	Description
431346	Alwen Linear Microwave/Step Dim Plug & Play Sensor
430904	Remote control

Technical Information	
Input	12V DC
Operating Temp	-20°C - +45°C
Mounting Height	6M
Class	3
Connection Type	Quick Connector



Distribution Curve: see next page

Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +45°C
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C



Dairy Farm

A dairy farm near Wells embraced modern technology by installing truSmart lighting paired with high-efficiency Foremark Plus High Bay fixtures. With an impressive efficiency of up to 205 lumens per watt

(lm/W) and the integration of Daylight Harvesting sensors, the project has benefitted from exceptional energy savings, also creating an optimal environment for livestock health and productivity.

“...achieved an 80% reduction in lighting energy consumption, ensuring significant annual savings”



Tempest

High Output - Plug & Play
Anti-Corrosive

NEW

A ↑ G A Ultra Efficient

IP65 Ingress Protection
Flicker Free
180 Lm/W
BESA Mount
Push-Fit Terminals
Loop in Loop out
70,000 LED Lifespan L70
5 YR Product Warranty
Selectable Emergency E3 + ST

TEMPEST

ANTI-CORROSIVE

Upgraded
High Output



- 180lm/W output performance
- Anti-vandal screws supplied
- Pre-threaded M20 cable entry
- Designed for easy and rapid installation

THINK! LUMENS NOT WATTS

plug+play Enabled

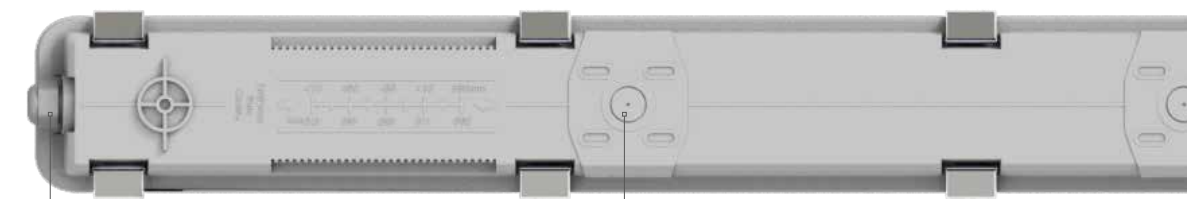
E-SEL3
Emergency Module
Part No. 430962

Microwave/Step Dim Sensor Module
Part No. 431346

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431343	Tempest Anti-Corrosive 5ft High Output Plug & Play	70W	5000K	12,600	180
431344	Tempest Anti-Corrosive 6ft High Output Plug & Play	78W	5000K	14,050	180

Option No.	Description
430962	Grafham E-SEL3 Selectable Emergency Module
431346	Alwen Linear Microwave/Step Dim Plug & Play Sensor

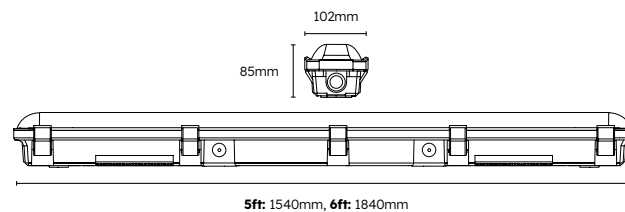
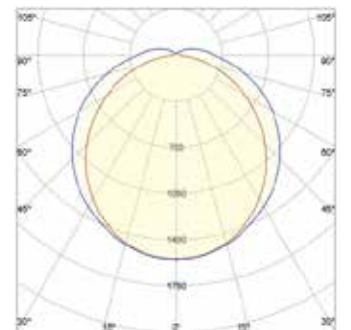
truSmart
intelligent controls
Compatible



Pre-threaded M20 cable entry

Rear & side conduit entry points

Distribution Curve



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +45°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Stanford

Anti-Corrosive - Single

POWERED BY : ENEC
TRIDONIC

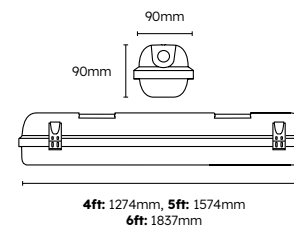
IP65 Ingress Protection	IK08 Impact Rating	140 Lm/W	50,000 LED Lifespan L70	5 YR Product Warranty
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- High efficacy up to 140lm/W
- Anti-distortion housing
- Improved thermals utilising aluminium back PCBs
- Opal, ribbed polycarbonate diffuser to reduce glare
- Stainless steel clips
- H3 - High Output Emergency 440lm option available

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430026	Stanford Anti-Corrosive 4ft Single - Grey	19W	4000K	2,475	130
430032	Stanford Anti-Corrosive 4ft Single - Grey	19W	5000K	2,650	140
430028	Stanford Anti-Corrosive 5ft Single - Grey	27W	4000K	3,500	130
430034	Stanford Anti-Corrosive 5ft Single - Grey	27W	5000K	3,775	140
430030	Stanford Anti-Corrosive 6ft Single - Grey	38W	4000K	4,950	130
430036	Stanford Anti-Corrosive 6ft Single - Grey	38W	5000K	5,325	140

Option No.	Description	Lumens
-H3	High Output Emergency	440



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	1
Connection Type	Screw Terminal

*Emergency Temp: 0°C - 30°C

Stanford

Anti-Corrosive - Twin

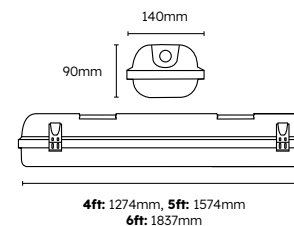
POWERED BY : ENEC
TRIDONIC



- High efficacy up to 140lm/W
- Anti-distortion housing
- Improved thermals utilising aluminium back PCBs
- Opal, ribbed polycarbonate diffuser to reduce glare
- Stainless steel clips
- H3 - High Output Emergency 440lm option available

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430027	Stanford Anti-Corrosive 4ft Twin - Grey	38W	4000K	4,950	130
430033	Stanford Anti-Corrosive 4ft Twin - Grey	38W	5000K	5,325	140
430029	Stanford Anti-Corrosive 5ft Twin - Grey	57W	4000K	7,400	130
430035	Stanford Anti-Corrosive 5ft Twin - Grey	57W	5000K	7,975	140
430031	Stanford Anti-Corrosive 6ft Twin - Grey	72W	4000K	9,350	130
430037	Stanford Anti-Corrosive 6ft Twin - Grey	72W	5000K	10,075	140

Option No.	Description	Lumens
-H3	High Output Emergency	440



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C*
Class	1
Connection Type	Screw Terminal

*Emergency Temp: 0°C - 30°C

Olton UGR

Wattage selectable: 20W/38W & 30W/58W
Academic Batten - Single & Twin Outputs



- UGR Opal, ribbed polycarbonate diffuser to reduce glare
- Switchable dual wattage batten
- Robust steel body construction
- Multi 20mm conduit entry
- Self-test emergency available
- High output self-test emergency available

UGR <21



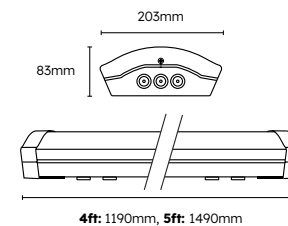
PIR Sensor Module
Part No. 401752



Remote Control
Part No. 401755

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430817	Olton 4ft Dual Wattage White	20W/38W	4000K	2,400/4,550	120
430818	Olton 5ft Dual Wattage White	30W/58W	4000K	3,600/6,950	120

Option No.	Description	Lumens
-MW	Microwave	-
-M3S	Open Area Emergency Self-Test	139
-M3S-MW	Open Area Emergency Self-Test & Microwave	139
-H3	High Output Emergency	330



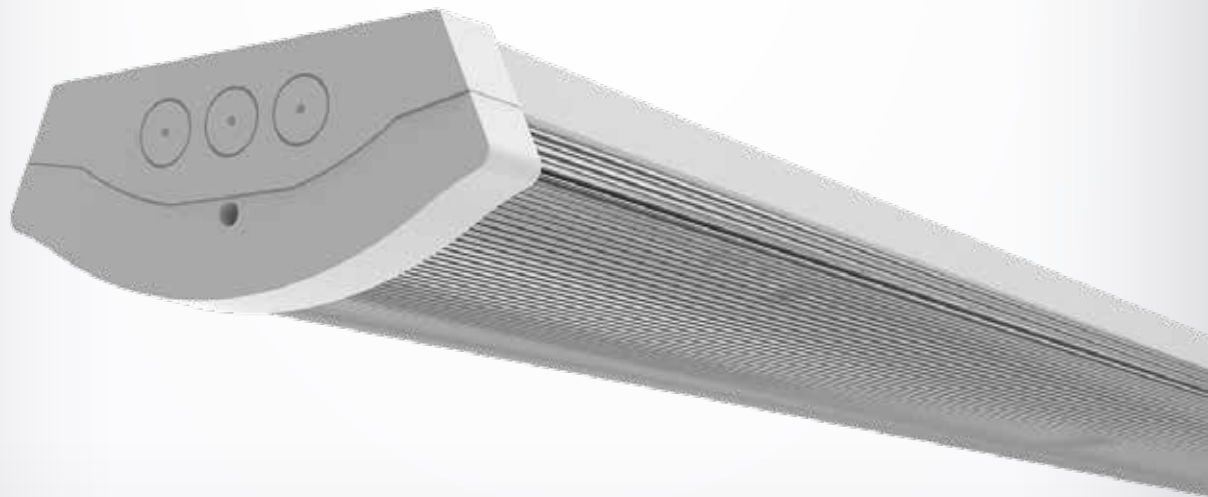
Technical Information

Input	220-240V AC
Operating Temp	0°C - +45°C
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Olton UGR

Wattage selectable: 18W/32W & 24W/43W
Academic Batten - Single & Twin Outputs



- Robust steel body
- Ribbed polycarbonate diffuser to reduce glare
- Multi 20mm conduit entry
- Switchable wattage available on internal driver
- High output self-test emergency available

UGR <19



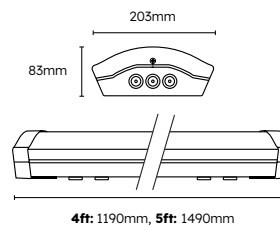
PIR Sensor Module
Part No. 401752



Remote Control
Part No. 401755

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430645	Olton Academic UGR 4ft Batten - White	18W / 32W	4000K	2,525/4,475	140
430646	Olton Academic UGR 5ft Batten - White	24W / 43W	4000K	3,350/6,025	140

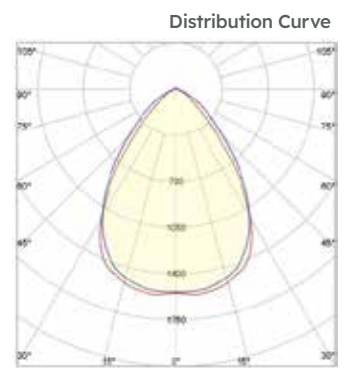
Option No.	Description	Lumens
-H3S	High Output Emergency Self Test	440
-MW	Microwave	
-H3S-MW	High Output Emergency Self Test & Microwave	440



Technical Information

Input	220-240V AC
Operating Temp	0°C - +45°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C





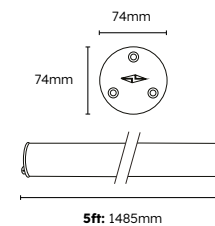
- Ideal for harsh environments
- IP67 & IK10 rated
- Full polycarbonate throughout
- High output emergency option available
- Microwave option available

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
420542	Welford Tubulaire 5ft - Frosted	65W	5000K	7,800	120

Option No.	Description	Lumens
-H3	High Output Emergency	500
-H3-MW	High Output Emergency & Microwave	500
430351	Stainless Steel Brackets (x2)	



Stainless Steel Brackets (x2)
Part No: 430351



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +45°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Case Study



Vertu Motors

Vertu Motors are looking at ways to improve their lighting, whilst reducing their energy bills. Working alongside T.E.P Electrical Distributors Ltd., we have now supplied our high bays in over 120 Vertu dealerships across the UK. This includes our Meadley high bay - with 90

or 120 degree optic options and a Plug & Play Emergency pack available. This project is ongoing, with more sites being added. As well as the quality of our lighting range, Vertu were impressed with our large stock holdings - meaning projects could be agreed and installed quickly.

Results

- Fast installation through large stock holdings
- Greater light coverage throughout
- Improved efficiency and reduced energy bills



“We have supplied our high bays in over 120 Vertu dealerships across the UK.”



Retail



94

Belvide 240V Tracking



95

Belvide 240V Accessories



96

Belvide 240V Spot



97

Belvide 240V Spot Plus



98

Belvide 48V Tracking



100

Belvide 48V Range



109

Belvide 48V Accessories



110

Eldwick

Belvide 240V

Tracking, Lighting & Accessories

NEW



Fontburn
Track System
Mounting
See page: 224

Compatible
with Belvide
240V Track
system

Belvide Standard 3 Circuit

• **Mounting:** Surface and Pendant

Part No.	Description
460500	Belvide Standard 3 Circuit Track 1m
460501	Belvide Standard 3 Circuit Track 2m

Option No.	
DALI	-DA



*3 & 4m Available on request



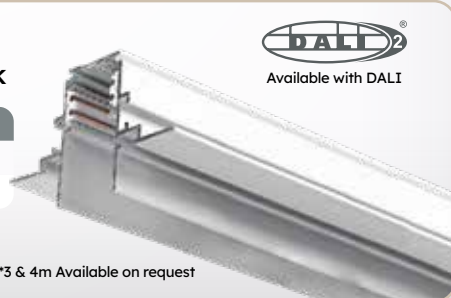
Belvide Recessed 3 Circuit Track

Part No.	Description
460502	Belvide Recessed 3 Circuit Track 1m
460503	Belvide Recessed 3 Circuit Track 2m

Option No.	
DALI	-DA



*3 & 4m Available on request



Belvide 240V Emergency Pill



Part No.	Description
460523	Belvide 240V Emergency Pill 3.2V 3.8Ah LiFePO4

LiFePO4



Technical Information

Input	230-240V AC
Operating Temp	0°C - +35°C



Part Number: 460511 (L)

Part Number: 460512 (R)

Live-End Connector
Standard/Recessed 3 Circuit
Track System



Part Number: 460521 (L)

Part Number: 460522 (R)

Twisted "T" Connector
Standard/Recessed 3 Circuit
Track System



Part Number: 460517

Twisted (L) & (R) Connector
Standard/Recessed 3 Circuit
Track System



Part Number: 460519

Flexible Connector
Standard/Recessed 3 Circuit
Track System



Part Number: 460518

"+" Connector
Standard/Recessed 3 Circuit
Track System



Part Number: 460516

Straight Connector
Standard/Recessed 3 Circuit
Track System



Part Number: 460513

Mini Joiner
Standard/Recessed 3 Circuit
Track System



Part Number: 460515

End Cap
Standard/Recessed 3 Circuit
Track System



Part Number: 460520

Adjustable "L" Connector
Standard/Recessed 3 Circuit
Track System



Part Number: 460523

Ceiling Mount Rod
Standard/Recessed 3 Circuit
Track System



Part Number: 460524

Ceiling Mount Wire
Standard/Recessed 3 Circuit
Track System



Part Number: 460525

T-Bar Mounting Kit
Standard/Recessed 3 Circuit
Track System



Belvide 240V Spot

3CCT Selectable: 2700K, 3000K, 4000K

UGR <19

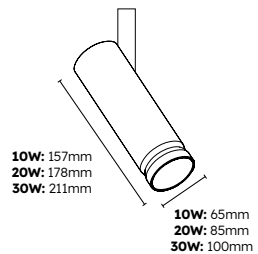


- Anti-glare track light.
- Aluminium housing.
- DALI Available.
- 3CCT selectable slide switch.



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
460504	Belvide Spot	10W	3CCT	1,100	110
460505	Belvide Spot	20W	3CCT	2,250	110
460506	Belvide Spot	30W	3CCT	3,050	110

Option No.	Description
460507	24° Beam Angle Insert
460508	36° Beam Angle Insert
-DA	DALI



Technical Information	
Input	200-240V AC
Operating Temp	-20°C - +45°C
Class	1
Connection Type	Push Terminal

Belvide 240V Spot Plus

Wattage Selectable: 10W/15W/20W, 25W/30W/35W
3CCT Selectable: 2700K, 3000K, 4000K

NEW

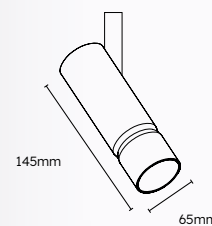
UGR <19



- 3CCT selectable slide switch.
- Wattage selectable.
- Selectable beam angle 24° - 60°
- Aluminium housing.



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
460509	Belvide Spot Plus	10W/15W/20W	3CCT	1,075/1,600/2,150	105
460510	Belvide Spot Plus	25W/30W/35W	3CCT	2,675/3,200/3,750	105



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +45°C
Class	1
Connection Type	Push Terminal

Belvide 48V

Tracking, Lighting & Accessories



Included

NEW

Belvide Standard Tracking 4m
Part No: 460403

Linear Spot 120
Part No: 460429

Spot Fixed Mini 20
Part No: 460424

Linear Spot ADJ 230
Part No: 460428

Spot Tilt
Part No: 460438

Included

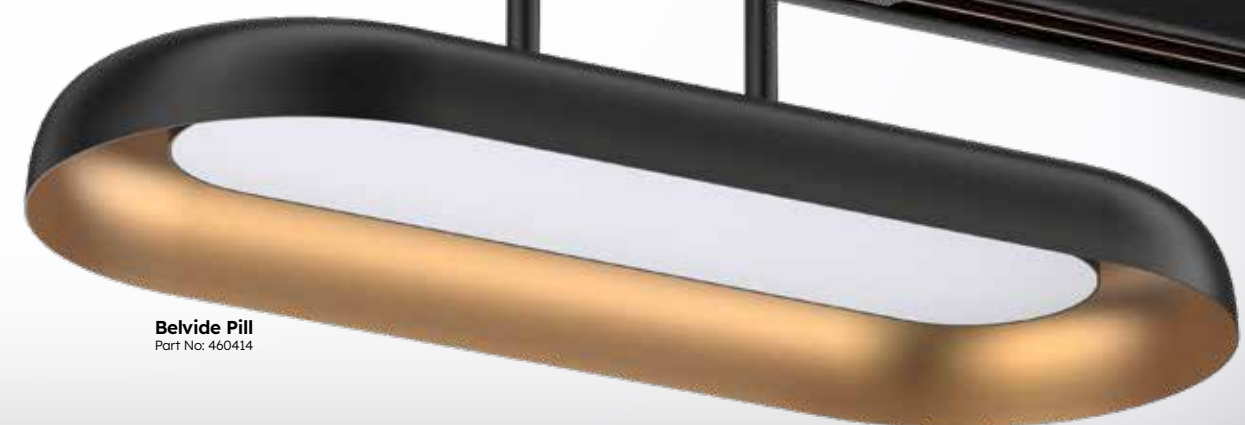
LiFePO4

-BL
-WH

Belvide 48V Emergency Pill

Part No.	Description
460482	Belvide 48V Emergency Pill 3.2V 3.8Ah LiFePO4

Technical Information	
Input	230-240V AC
Operating Temp	0°C - +35°C



Belvide Pill
Part No: 460414

Belvide Standard Track

- **Mounting:** Surface and Pendant

Part No.	Description
460400	Belvide Standard Track 1m
460401	Belvide Standard Track 2m
460402	Belvide Standard Track 3m
460403	Belvide Standard Track 4m



-BL -WH

Belvide Recessed Track

Part No.	Description
460408	Belvide Recessed Track 1m
460409	Belvide Recessed Track 2m
460410	Belvide Recessed Track 3m
460411	Belvide Recessed Track 4m



-BL -WH

BUILD YOUR 48V TRACK

Start with the Part Number

Part Number: 460412

Pendant Long

- Power: 12W
- Lumens: 1,050lm
- Beam Angle: 36°

Select your Kelvin

2700K 3000K 4000K

Add your Colour



W: 158mm
H: 176mm

2700K 2700K -927
3000K 3000K -930
4000K 4000K -940

Black -BL
Black/Gold -BLG
Black/Bronze -BLB
Black/Silver -BLS
White -WH
White/Black -WHB
White/Gold -WHG

Example part number: CRI:90
Part Number: 460412-930-BLS

Part number Kelvin Colour

Part Number: 460412

Pendant Long

- Power: 12W
- Lumens: 1,050lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 50mm
H: 160mm

Part Number: 460413

Pendant Bowl

- Power: 12W
- Lumens: 1,050lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 158mm
H: 176mm

Part Number: 460414

Pill

- Power: 18W
- Lumens: 1,500lm
- Beam Angle: 110°

2700K 3000K 4000K



W: 475mm
H: 48mm

Part Number: 460417

Pendant Glass 50

- Power: 9W
- Lumens: 850lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 50mm
H: 110mm

Part Number: 460418

Pendant Long Glass

- Power: 12W
- Lumens: 850lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 50mm
H: 160mm

Part Number: 460420

Pendant Deco Wire

- Power: 7W
- Lumens: 600lm
- Beam Angle: 110°

2700K 3000K 4000K



W: 80mm
H: 169mm

Part Number: 460416

Flat

- Power: 18W
- Lumens: 1,500lm
- Beam Angle: 110°

2700K 3000K 4000K



W: 375mm
H: 25mm

Part Number: 460419

Pendant Glass 40

- Power: 7W
- Lumens: 600lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 40mm
H: 88mm

Belvide 48V

Tracking, Lighting & Accessories

NEW

Part Number: 460415

Disc

- Power: 18W
- Lumens: 1,500lm
- Beam Angle: 110°

2700K 3000K 4000K



W: 300mm
H: 25mm

Part Number: 460421

Pendant Deco Glass

- Power: 7W
- Lumens: 600lm
- Beam Angle: 110°

2700K 3000K 4000K



W: 80mm
H: 169mm

Part Number: 460422

Spot 40

- Power: 7W
- Lumens: 600lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 40mm
H: 88mm

Part Number: 460423

Spot 50

- Power: 9W
- Lumens: 800lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 50mm
H: 110mm

Part Number: 460424

Spot Fixed Mini 20

- Power: 3W
- Lumens: 250lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 23mm
H: 50mm

Part Number: 460425

Spot Double 40

- Power: 2x7W
- Lumens: 2x600lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 40mm
H: 88mm

Part Number: 460426

Spot Double 50

- Power: 2x9W
- Lumens: 2x800lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 50mm
H: 110mm

Part Number: 460427

Linear Spot ADJ 120

- Power: 9W
- Lumens: 800lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 120mm
H: 22.8mm



Belvide 48V

Tracking, Lighting & Accessories

NEW

Part Number: 460435

Spot 65 x 150

- **Power:** 11W
- **Lumens:** 875lm
- **Beam Angle:** 36°

3000K 4000K



W: 65mm
H: 150mm

Part Number: 460436

Spot 45 x 150

- **Power:** 8W
- **Lumens:** 675lm
- **Beam Angle:** 36°

3000K 4000K



W: 45mm
H: 150mm

Part Number: 460437

Spot 30 x 250

- **Power:** 8W
- **Lumens:** 675lm
- **Beam Angle:** 36°

3000K 4000K




W: 30mm
H: 250mm

Part Number: 460438

Spot Tilt

- **Power:** 8W
- **Lumens:** 680lm
- **Beam Angle:** 36°

3000K 4000K




W: 45mm
H: 103mm

Part Number: 460439

Spot Mini

- **Power:** 1.5W
- **Lumens:** 150lm
- **Beam Angle:** 36°

3000K 4000K



W: 25mm
H: 50mm

Part Number: 460441

Linear 230

- **Power:** 16W
- **Lumens:** 1,200lm
- **Beam Angle:** 36°

3000K 4000K



W: 230mm
H: 45mm

Part Number: 460440

Linear 115

- **Power:** 8W
- **Lumens:** 550lm
- **Beam Angle:** 36°

3000K 4000K




W: 115mm
H: 48mm

Part Number: 460442

Linear Round 182

- **Power:** 8W
- **Lumens:** 725lm
- **Beam Angle:** 36°

3000K 4000K




W: 182.4mm
H: 28mm

Part Number: 460444

Linear Round 454

- **Power:** 20W
- **Lumens:** 1,850lm
- **Beam Angle:** 36°

3000K 4000K




W: 454mm
H: 28mm

Part Number: 460447

Linear Down 300

- **Power:** 5W
- **Lumens:** 500lm
- **Beam Angle:** 360°/160°

3000K 4000K




W: 33mm
H: 300mm

Part Number: 460446

Linear Down 600

- **Power:** 7W
- **Lumens:** 700lm
- **Beam Angle:** 360°/160°

3000K 4000K




W: 33mm
H: 600mm

Part Number: 460448

Linear Down 900

- **Power:** 10W
- **Lumens:** 1000lm
- **Beam Angle:** 360°/160°

3000K 4000K




W: 33mm
H: 900mm

Part Number: 460445

Linear Round 407

- **Power:** 20W
- **Lumens:** 1,850lm
- **Beam Angle:** 36°

3000K 4000K




W: 407.4mm
H: 28mm

Part Number: 460443

Linear Round 179

- **Power:** 8W
- **Lumens:** 725lm
- **Beam Angle:** 36°

3000K 4000K



W: 179.4mm
H: 28mm

Belvide 48V

Tracking, Lighting & Accessories

NEW



Part Number: 460428

Linear Spot ADJ 230

- Power: 18W
- Lumens: 1,500lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 233mm
H: 22.8mm



Part Number: 460429

Linear Spot 120

- Power: 9W
- Lumens: 800lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 120mm
H: 22.8mm

Part Number: 460431

Linear Spot 230

- Power: 18W
- Lumens: 1,500lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 233mm
H: 22.8mm



Part Number: 460430

Linear 120

- Power: 9W
- Lumens: 800lm
- Beam Angle: 110°

2700K 3000K 4000K



W: 120mm
H: 22.8mm



Part Number: 460432

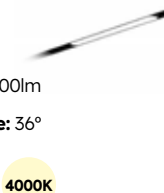
Linear 230

- Power: 18W
- Lumens: 1,500lm
- Beam Angle: 36°

2700K 3000K 4000K



W: 22.8mm
H: 233mm



Part Number: 460433

Linear UGR 120

- Power: 9W
- Lumens: 800lm
- Beam Angle: 75°

2700K 3000K 4000K



W: 22.8mm
H: 120mm



Part Number: 460434

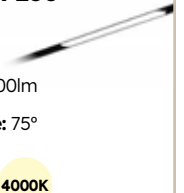
Linear UGR 230

- Power: 18W
- Lumens: 1,500lm
- Beam Angle: 75°

2700K 3000K 4000K



W: 22.8mm
H: 233mm











Belvide 48V

Tracking, Lighting & Accessories

NEW

<p>Part Number: 460449</p> <p>Linear Extra 900</p> <ul style="list-style-type: none"> Power: 7W Lumens: 1050lm Beam Angle: 360°/160° <p>3000K 4000K</p> <p>W: 900mm H: 31.5mm</p>	<p>Part Number: 460450</p> <p>Linear Extra 1200</p> <ul style="list-style-type: none"> Power: 10W Lumens: 1500lm Beam Angle: 360°/160° <p>3000K 4000K</p> <p>W: 1200mm H: 31.5mm</p>	<p>Part Number: 460451</p> <p>Linear Extra 1500</p> <ul style="list-style-type: none"> Power: 15W Lumens: 2250lm Beam Angle: 360°/160° <p>3000K 4000K</p> <p>W: 1500mm H: 31.5mm</p>
<p>Part Number: 460452</p> <p>Spot Down</p> <ul style="list-style-type: none"> Power: 8W Lumens: 725lm Beam Angle: 45° <p>3000K 4000K</p> <p>W: 30mm H: 132mm</p>	<p>Part Number: 460454</p> <p>Spot Length</p> <ul style="list-style-type: none"> Power: 8W Lumens: 725lm Beam Angle: 45° <p>3000K 4000K</p> <p>W: 30mm H: 100mm</p>	<p>Part Number: 460455</p> <p>Spot Extra Length</p> <ul style="list-style-type: none"> Power: 8W Lumens: 725lm Beam Angle: 45° <p>3000K 4000K</p> <p>W: 30mm H: 320mm</p>
<p>Part Number: 460453</p> <p>Spot Wide Down</p> <ul style="list-style-type: none"> Power: 11W Lumens: 1000lm Beam Angle: 45° <p>3000K 4000K</p> <p>W: 53mm H: 132mm</p>	<p>Part Number: 460456</p> <p>Spot Length</p> <ul style="list-style-type: none"> Power: 11W Lumens: 1000lm Beam Angle: 45° <p>3000K 4000K</p> <p>W: 53mm H: 100mm</p>	<p>Part Number: 460457</p> <p>Spot Extra Length</p> <ul style="list-style-type: none"> Power: 11W Lumens: 1000lm Beam Angle: 45° <p>3000K 4000K</p> <p>W: 53mm H: 320mm</p>

 <p>Part Number: 460458</p> <p>L-Shape Connector (L) Standard Track System</p>	 <p>Part Number: 460459</p> <p>L-Shape Connector (R) Standard Track System</p>	 <p>Part Number: 460460</p> <p>L-Shape Connector (Vertical) Standard Track System</p>	 <p>Part Number: 460461</p> <p>End Cap Standard Track System</p>
 <p>Part Number: 460462</p> <p>Reinforcement Kit Standard Track System</p>	 <p>Part Number: 460467</p> <p>L-Shape Connector (L) Recessed Track System</p>	 <p>Part Number: 460468</p> <p>L-Shape Connector (R) Recessed Track System</p>	 <p>Part Number: 460469</p> <p>L-Shape Connector (Vertical) Recessed Track System</p>
 <p>Part Number: 460470</p> <p>End Cap Recessed Track System</p>	 <p>Part Number: 460471</p> <p>Metal Strip Recessed Track System</p>	 <p>Part Number: 460472</p> <p>Live End Connector (Left) Recessed Track System</p>	 <p>Part Number: 460473</p> <p>Live End Connector (Right) Recessed Track System</p>
 <p>Part Number: 460474</p> <p>Live End Connector (I) Recessed Track System</p>	 <p>Part Number: 460475</p> <p>Live End Connector (L) Recessed Track System</p>	 <p>Part Number: 460476</p> <p>Power Feeder (Flex) Recessed Track System</p>	 <p>Part Number: 460477</p> <p>Ceiling Mount EZClick suspension kit with 1m rod</p>
 <p>Part Number: 460478</p> <p>Ceiling Mount EZClick suspension kit with 1.5m wire</p>	 <p>Part Number: 460479</p> <p>Ceiling Mount Reinforcement kit with 1m rod</p>	 <p>Part Number: 460480</p> <p>Ceiling Mount Reinforcement kit with 1.5m wire</p>	 <p>Part Number: 460481</p> <p>Ceiling Mount Mounting Clip</p>

Eldwick

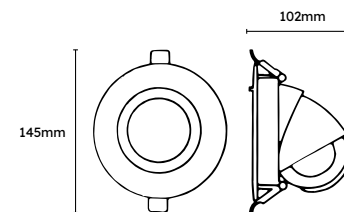
Retail Downlights



- Up to 70% energy saving compared to standard CFL
- LED Lifespan 30,000 hours L70
- Multi-directional retail light



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
421049	Eldwick Retail Downlight - White	20W	4000K	2,000	110
421052	Eldwick Retail Downlight - White	45W	4000K	4,200	90



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +40°C
Class	2
Connection Type	Push Fit



Anti-Vandal



114

Torside Bulkhead



116

Torside 3CCT Bulkhead



118

Torside Panel



120

Torside Downlight



122

Torside Cornice Wall Light



124

Torside Linear Wall Light



126

Torside Tubulaire

Torside Anti-Vandal

Anti-Vandal Bulkhead

NEW

- IP66

Ingress Protection
- IK20

Impact Rating
- BESA Mount

BESA Mount
- 120°

Beam Angle
- 5 YR

Product Warranty



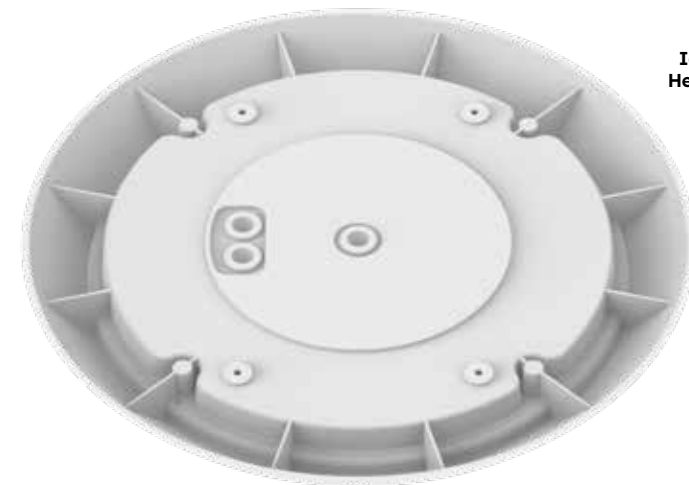
- Diecast Aluminium
- High-strength impact-resistant, waterproof and tamper-proof ceiling light
- High efficiency 130lm/W
- LED lifespan 70,000 hours L70
- DALI, Sensor and Emergency available.
- Modular design provides the ability to replace components



Available with DALI

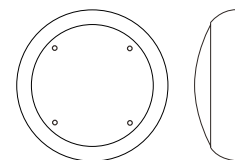
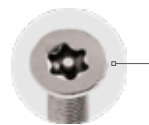
Part No.	Description	Watts	Kelvin	Lumens	Lm/W
450314	Torside Anti-Vandal Bulkhead	16W	4000K	2,075	130
450315	Torside Anti-Vandal Bulkhead	32W	4000K	4,150	130

Options available		Lumens
Emergency	-M3	500
DALI	-DA	
Microwave	-MW	
3.5W Nightlight	-NL	



Ideal for Hospitals, Health Care & Aging Care Centres

Anti-Tamper Screws



W: 455mm H: 455mm D: 115mm

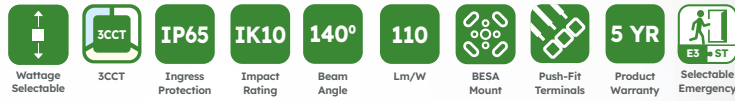
Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +40°C*
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Torside Anti-Vandal

3CCT Selectable: 3000K, 4000K, 6000K
Anti-Vandal Bulkhead



- Anti-Tamper Bulkhead
- Standard, step dim microwave and E3 emergency options available
- Tough and durable body with polycarbonate diffuser
- Wall and ceiling mount
- LED lifespan 60,000 hours L70
- IK10 impact rated
- Tamper proof screws



Emergency Module
Part No. 430963

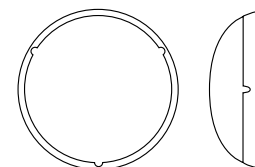


Microwave Step
Dim Sensor Module
Part No. 431127

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431128	Royd Anti-Tamper Bulkhead - White	12W/16W/18W	3CCT	1,325/1,750/1,975	110

Lumens based on 4000K

Option No.	Description
430963	Grafham Emergency Module
430963-E3	Grafham E-SEL3 Selectable Emergency Module **
431127	Alwen 2 in 1 Step Dim Microwave Sensor Module



W: 305mm H: 305mm D: 110mm

Technical Information

Input	220-240V AC
Operating Temp	-20°C - +40°C
Class	2
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

**Available: June 2025

Torside Anti-Vandal

Wattage Selectable: 35W/30W/25W/20W
Anti-Vandal Panel



- Wattage Selectable
- IP65 Ingress Protection
- IK10 Impact Rating 450313
- IK08 Impact Rating 450312
- Glare Reducing
- 5 YR Product Warranty



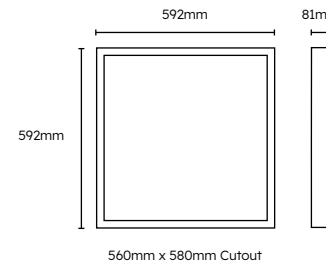
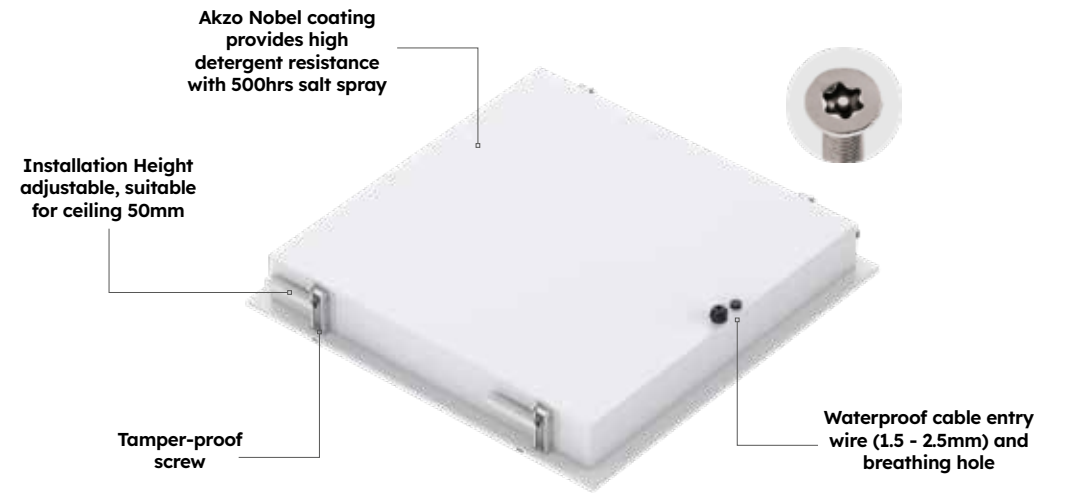
- Akzo Nobel Paint
- Tempered glass for IK10, PC Diffuser for IK08
- Replaceable driver and LED source, fast replacement for easy maintenance.
- Built-in flicker free Osram driver, adjustable power function available.
- DALI dimming with Osram driver available.
- Big cable gland, suitable for 1.5-2.5mm cable input

UGR <19



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
450312	Torside Anti-Vandal Panel Polycarbonate	35W/30W/25W/20W	4000K	4,200	120
450313	Torside Anti-Vandal Panel Tempered Glass	35W/30W/25W/20W	4000K	4,200	120

Options available	
DALI	-DA



Technical Information	
Input	220-240V AC
Operating Temp	-10°C - +40°C
Class	1
Connection Type	1.5-2.5mm Cable GI

NEW

Torside Anti-Vandal

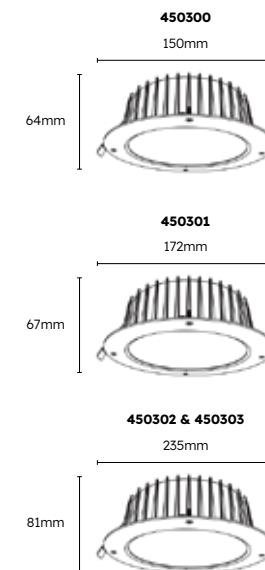
3CCT: 3000K, 4000K & 6000K
Anti-Vandal Downlight

NEW



- 90° Beam angle
- 3CCT slide switch
- Impact resistance rating: IK10 (20 joules of energy)
- Ingress protection rating: IP65

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
450300	Torside Anti-Vandal Downlight	13W	3CCT	1,300	110
450301	Torside Anti-Vandal Downlight	18W	3CCT	1,975	110
450302	Torside Anti-Vandal Downlight	25W	3CCT	2,750	110
450303	Torside Anti-Vandal Downlight	35W	3CCT	3,850	110



Technical Information	
Input	220-240V AC
Operating Temp	-10°C - +40°C
Class	1
Connection Type	xxx

Torside Anti-Vandal

Wattage Selectable: See table
Anti-Vandal Cornice Wall Light

NEW

- 
Wattage Selectable
- 
IP65 Ingress Protection
- 
IK13 Impact Rating
- 
BESA Mount
- 
5 YR Product Warranty



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
450304	Torside Anti-Vandal Cornice Wall Light	8W/10/12W/15W	4000K	1,800	120
450305	Torside Anti-Vandal Cornice Wall Light	12W/14W/17W/20W	4000K	2,400	120
450306	Torside Anti-Vandal Cornice Wall Light	30W/33W/40W/45W	4000K	5,400	120
450307	Torside Anti-Vandal Cornice Wall Light	50W/58W/61W/65W	4000K	7,800	120

Colour Options available

White	-WH
Black	-BL

Options available

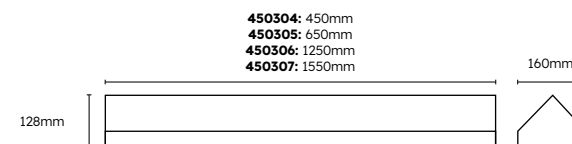
DALI	-DA
Emergency	-M3
3.5W Nightlight	-NL

AkzoNobel brand high detergent resistant with 500hrs salt spray test

Anti-Tamper screws



- AkzoNobel brand high intensity powder coating.
- Wattage selectable
- Ideal for Subway/Underpass/Prison/Hospital
- On/off, DALI, Emergency & night light function available.



Technical Information

Input	220 - 240V AC
Operating Temp	-20°C - +40°C
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Torside Anti-Vandal

Wattage Selectable: See table
Anti-Vandal Linear Wall Light

NEW

- 
Wattage Selectable
- 
IP65
Ingress Protection
- 
IK13
Impact Rating
- 
BESA
Mount
- 
5 YR
Product Warranty



- AkozNobel brand high intensity powder coating.
- Wattage selectable
- Ideal for Subway/Underpass/Prison/Hospital
- On/off, DALI, Emergency & night light function available.



Available with DALI

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
450308	Torside Anti-Vandal Linear Wall Light	8W/10/12W/15W	4000K	1,950	130
450309	Torside Anti-Vandal Linear Wall Light	12W/14W/17W/20W	4000K	2,600	130
450310	Torside Anti-Vandal Linear Wall Light	30W/33W/40W/45W	4000K	5,850	130
450311	Torside Anti-Vandal Linear Wall Light	50W/58W/61W/65W	4000K	8,450	130

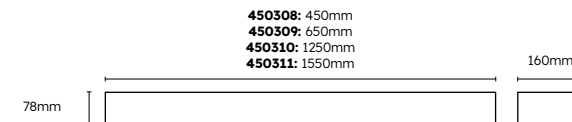
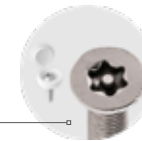
Colour Options available

White	-WH
Black	-BL

Options available

DALI	-DA
Emergency	-M3
3.5W Nightlight	-NL

Anti-Tamper screws



Technical Information

Input	220 - 240V AC
Operating Temp	-10°C - +40°C
Class	1
Connection Type	Push Terminal

*Emergency Temp: 0°C - 30°C

Torside Anti-Vandal

Wattage Selectable: See table
Anti-Vandal Tubulaire

NEW

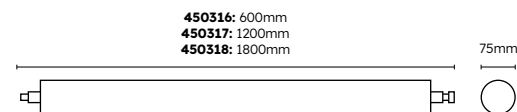
IP66	IP69K	IK10	5 YR
Ingress Protection -PC	Ingress Protection -PMMA	Impact Rating	Product Warranty



- AkozNobel brand high intensity powder coating.
- Wattage selectable
- Ideal for Parking/Food Factory/Car Wash/Farming

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
450316	Torside Anti-Vandal Tri-proof Tubulaire	20W	4000K	2,400	120
450317	Torside Anti-Vandal Tri-proof Tubulaire	33W	4000K	4,150	120
450318	Torside Anti-Vandal Tri-proof Tubulaire	45W	4000K	5,500	120

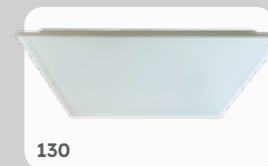
Options available	
PMMA diffuser	-PMMA



Technical Information	
Input	220 - 240V AC
Operating Temp	-20°C - +40°C
Class	1
Connection Type	IP Quick Connector



Commercial



130

Wraysbury



144

Weston



146

Meldon



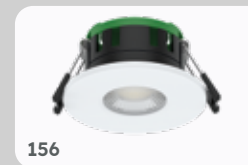
148

Eyebrook



154

Tunstall



156

Avon Pro



158

Avon Pro Gimbal



160

Avon Pro Anti-Glare



162

Avon One



164

Blakeley

Wraysbury

600 x 600 Backlit Panel

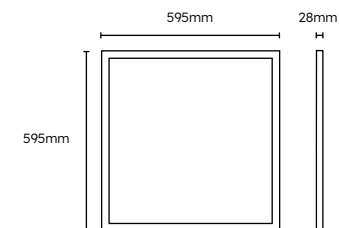


- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free driver
- Connector supplied



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431270	Wraysbury Panel TP (b) - White	30W	4000K	3,300	110
431270-MP	Wraysbury Panel TP (b) - White 10x Multipack	30W	4000K	3,300	110

Option No.	Description
430147	Ceiling Pattress Kit 600 x 600
430971	Grafham E-SEL3 2W Emergency Pack
430266	Triac Dimmable Driver 18W - 32W
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC



Technical Information	
Input	220-240V AC
Operating Temp	0°C - +40°C*
Class	2
Connection Type	Push-Fit Connector

*Emergency Temp: 0°C - 30°C

Wraysbury UGR

600 x 600 Backlit Panel



- IP40**
Ingress Protection
- Flicker Free**
- 85°**
Beam Angle
- 50,000**
LED Lifespan L70
- Glare Reducing**
- Push-Fit Terminals**
- 5 YR**
Product Warranty
- Self-Test Emergency**



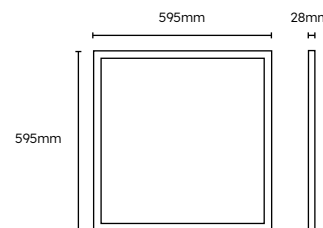
- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free driver
- Connector supplied
- Microprismatic TP (a)
- UGR <19

UGR <19



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431271	Wraysbury Panel UGR TP (a) - White	30W	4000K	3,600	120
431271-MP	Wraysbury Panel UGR TP (a) - White 10x Multipack	30W	4000K	3,600	120

Option No.	Description
430147	Ceiling Pattress Kit 600 x 600
430971	Grafham E-SEL3 2W Emergency Pack
430266	Triac Dimmable Driver 18W - 32W
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC

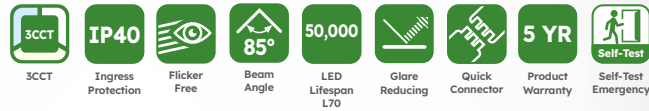


Technical Information	
Input	220-240V AC
Operating Temp	0°C - +40°C*
Class	2
Connection Type	Push-Fit Connector

*Emergency Temp: 0°C - 30°C

Wraysbury UGR 3CCT

600 x 600 & 1200 x 600 Backlit Panel
3CCT Selectable: 3000K, 4000K, 6000K



LOCH3
Quick Connector



600 x 600

- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free driver
- Connector supplied
- Microprismatic TP (a) diffuser
- UGR <19

1200 x 600

- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Loch3 Quick Connector supplied
- Microprismatic TP (a) diffuser
- UGR <19

UGR <19



Available with DALI

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431272	Wraysbury Panel UGR 600 x 600 TP (a) - White	28W	3CCT	3,350	120
431274	Wraysbury Panel UGR 1200 x 600 TP (a) - White	48W	3CCT	5,750	120

Option No.	Description
430147	Ceiling Pattress Kit 600 x 600
430148	Ceiling Pattress Kit 1200 x 600
430971	Grafham E-SEL3 2W Emergency Pack
430266	Triac Dimmable Driver 18W - 32W
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC
430270	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 42W-60W 1050-1500mA 30-40VDC

*Lumens based on 4000K



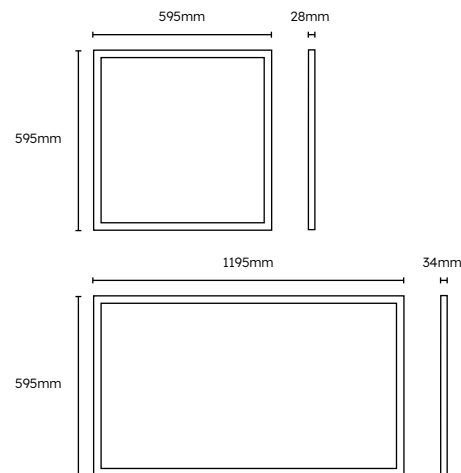
Multi Dimmable Driver 24W - 42W
Part No. 430269



Multi Dimmable Driver 42W - 60W
Part No. 430270



Triac Dimmable Driver 18W - 32W
Part No. 430266



Technical Information

Input	220-240V AC
Operating Temp	0°C - +40°C*
Class	2
Connection Type	Quick Connector

*Emergency Temp: 0°C - 30°C

Wraysbury UGR IP65

600 x 600 Backlit Panel



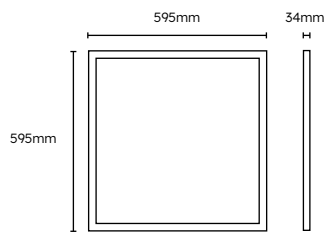
- 
IP65
Ingress Protection
- 
Flicker Free
- 
90°
Beam Angle
- 
50,000
LED Lifespan L70
- 
Glare Reducing
- 
5 YR
Product Warranty



UGR <19

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430236	Wraysbury Panel 600 x 600 TP (a) - White	32W	4000K	3,525	110

- **IP65 panel including IP65 driver**
- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Flicker free driver
- Microprismatic TP (a) diffuser
- <19 UGR



Technical Information	
Input	220-240V AC
Operating Temp	0°C - +40°C
Class	2
Connection Type	Flying Lead

Wraysbury UGR Plus

600 x 600 Panel

A **A** Ultra Efficient

- IP40**
Ingress Protection
- 175**
Lm/W
- Flicker Free**
- 85°**
Beam Angle
- 50,000**
LED Lifespan L70
- Quick Connector**
- 5 YR**
Product Warranty
- Self-Test Emergency**



LOCH3
Quick Connector



- **High efficiency, 175 lumens per watt**
- Optic lens for even light distribution
- Better uniformity and heat dissipation
- Microprismatic TP (a) diffuser
- Flicker free driver
- Loch3 Quick Connector supplied

THINK! LUMENS NOT WATTS

UGR <19



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431273	Wraysbury Plus Panel 600 x 600 TP (a) - White	18W	4000K	3,150	175

Option No.	Description
430147	Ceiling Pattress Kit 600 x 600
430971	Grafham E-SEL3 2W Emergency Pack
430265	Triac Dimmable Driver 10W - 24W
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC



THINK! LUMENS NOT WATTS

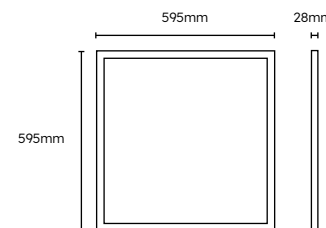
Lumineux is leading the way in the next generation of LED Lighting! Products with this logo have maximised ROI due to new higher lumen efficiency and reduced wattage.

Wraysbury

Watts	Lumens
40W	3,200

Wraysbury Plus

Watts	Lumens
18W	3,150



Technical Information

Input	220-240V AC
Operating Temp	0°C - +40°C*
Class	2
Connection Type	Quick Connector

*Emergency Temp: 0°C - 30°C

Case Study



Kitchen Offices

The UK's No.1 kitchen retailer upgraded their lighting throughout their Head Office with Wraysbury Panels, incorporating internal emergency lighting to ensure compliance with

required emergency lighting standards. This modern, energy-efficient solution enhances workplace illumination while providing a safe and productive office environment.

“...modern, energy-efficient solution enhances workplace illumination...”

Wraysbury UGR Indirect

600 x 600 Indirect Panel



LOCH3
Quick Connector



- UGR <19
- Flicker free driver
- Optic lens for even light distribution
- Microprismatic TP (a) diffuser
- Connector supplied



UGR <19



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430060	Wraysbury Panel UGR TP (a) - White	30W	4000K	3,450	115

*Lumens based on 4000K

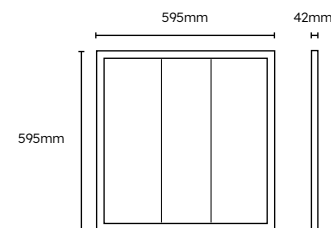
Option No.	Description
430971	Grafham E-SEL3 2W Emergency Pack
430266	Triac Dimmable Driver 18W - 32W
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC



Multi Dimmable Driver 24W - 42W
Part No. 430269



Triac Dimmable Driver 18W - 32W
Part No. 430266



Technical Information

Input	220-240V AC
Operating Temp	0°C - +40°C*
Class	2
Connection Type	Quick Connector

*Emergency Temp: 0°C - 30°C

Weston

Backlit Downlight



IP40 Ingress Protection	Flicker Free	110° Beam Angle	70,000 LED Lifespan L70	110 Lm/W	Quick Connector	5 YR Product Warranty	Self-Test Emergency
75mm 7W Hole Cut-Out	95mm 10W Hole Cut-Out	115mm 15W Hole Cut-Out	155mm 20W Hole Cut-Out	180mm 24W Hole Cut-Out			



LOCH3
Quick Connector



- Tough powder coated steel body with polycarbonate TP (a) diffuser
- Stainless steel spring clips
- Flicker Free
- LED lifespan 70,000 hours L70
- Loch3 Quick Connector supplied



Part No.	Description	Hole Cut-Out	Watts	Kelvin	Lumens	Lm/W
430725	Weston Backlit Downlight TP (a) - White	75mm	7W	4000K	700	100
430726	Weston Backlit Downlight TP (a) - White	95mm	10W	4000K	1,100	110
430727	Weston Backlit Downlight TP (a) - White	115mm	15W	4000K	1,650	110
430728	Weston Backlit Downlight TP (a) - White	155mm	20W	4000K	2,200	110
430729	Weston Backlit Downlight TP (a) - White	180mm	24W	4000K	2,650	110

Option No.	Description
430971	Grafham E-SEL3 2W Emergency Pack
430265	Triac Dimmable Driver 10W - 24W
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC



Multi Dimmable Driver 8W - 22W
Part No. 430268



Multi Dimmable Driver 24W - 42W
Part No. 430269



Triac Dimmable Driver 10W - 24W
Part No. 430265

Loch3 & Loch4 connector

- Easy Loop-in-Loop-out connection
- Suitable for 1.5 - 2.5mm² terminal conductor (Solid or Stranded)
- Rated for temperatures of -10°C - +40°C
- 250V - 20A maximum current

Part No.	Description
430524-MP	3-Pole Connector - 50pcs
430523-MP	4-Pole Connector - 50pcs

IP20
Ingress Protection

Push-Fit Terminals

5 YR
Product Warranty

20
Amps

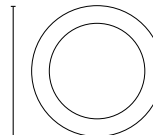


TOOL FREE

7W: 30mm, **10W:** 30mm, **15W:** 30mm, **20W:** 30mm, **24W:** 37mm



7W: 90mm, **10W:** 120mm, **15W:** 145mm, **20W:** 185mm, **24W:** 220mm



Technical Information	
Input	220-240V AC
Operating Temp	0°C - +45°C*
Class	2
Connection Type	Quick Connector

*Emergency Temp: 0°C - 30°C

Meldon

Adjustable Downlight
3CCT selectable: 3000K, 4000K, 6000K

 3CCT	 IP20 Ingress Protection	 80 CRI	 30,000 LED Lifespan L70	 Dimmable (430749 only)	 3 YR Product Warranty
 65-205mm Hole Cut-Out		 65-310mm Hole Cut-Out		Part No. 430745, 430746, 430747, 430748 & 430749	
				Part No. 430773 & 430774	



- Adjustable wattage output
- Surface mount or recessed
- LED lifespan 30,000 hours L70
- Multi-purpose, slim downlight
- PIR or 3CCT options
- Triac Dimmable



PIR Silver Bezel
Part No: 430754

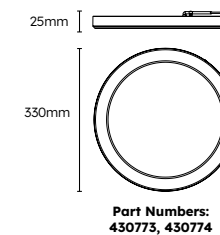
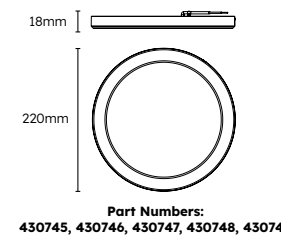


Black Bezel
Part No: 430750

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430745	Meldon Adjustable	18W	3CCT	1,700	95
430746	Meldon Adjustable PIR	18W	3CCT	1,700	95
430747	Meldon Adjustable Wattage Selectable	10W/15W/18W	4000K	950/1,425/1,700	95
430748	Meldon Adjustable Wattage Selectable PIR	10W/15W/18W	4000K	950/1,425/1,700	95
430749	Meldon Adjustable Dimmable	18W	3CCT	1,425	95
430773	Meldon Adjustable Wattage Selectable	15W/22W/28W	3CCT	1,425/2,100/2,650	95
430774	Meldon Adjustable Wattage Selectable PIR	15W/22W/28W	3CCT	1,425/2,100/2,650	95

*Lumens based on 4000K

Option No.	Description
430750	220mm Black Bezel
430751	220mm Silver Bezel
430753	220mm PIR Black Bezel
430754	220mm PIR Silver Bezel



Technical Information	
Input	220-240V AC
Operating Temp	0°C - +40°C
Class	2
Connection Type	Flying Lead

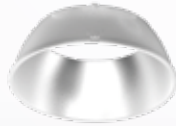
Eyebrook

Dome Downlight

3CCT selectable: 3000K, 4000K, 6000K



Specular Reflector
4" Part No: 430211
6" Part No: 430214



Silver Reflector
4" Part No: 430258
6" Part No: 430259



White Reflector
4" Part No: 430213
6" Part No: 430216



Black Reflector
4" Part No: 430212
6" Part No: 430215



Copper Reflector
4" Part No: 430545
6" Part No: 430546



Anti Tamper Trim
4" Part No: 430219
6" Part No: 430222



Halo Trim
4" Part No: 430221
6" Part No: 430224



Drop Glass Trim
4" Part No: 430220
6" Part No: 430223

- Interchangeable reflectors and trims.
- Aluminium heatsink provides excellent thermals
- 3CCT downlight (3000K, 4000K, 6000K)



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430203	Eyebrook Dome Downlight Semi-Specular 80° 4" - White	12W	3CCT	1,325	110
430204	Eyebrook Dome Downlight Semi-Specular 80° 6" - White	16W	3CCT	1,750	110
430205	Eyebrook Dome Downlight Semi-Specular 80° 6" - White	22W	3CCT	2,425	110

Option No.	Description
430971	Grafham E-SEL3 2W Emergency Pack
430265	Triac Dimmable Driver 10W - 24W
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC

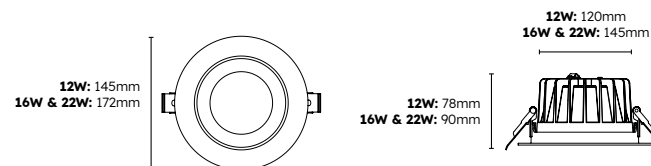
Lumens based on 4000K



6" to 8" Extender
Part No: 430210

Option No.	Description
430211	4" Reflector Specular
430212	4" Reflector -Black
430213	4" Reflector - White
430258	4" Reflector - Silver
430545	4" Reflector - Copper
430214	6" Reflector Specular
430215	6" Reflector - Black
430216	6" Reflector - White
430259	6" Reflector - Silver
430546	6" Reflector - Copper

Option No.	Description
430217	4" Bezel Black
430218	6" Bezel Black
430219	4" Trim Anti-Tamper
430220	4" Trim Drop Glass
430221	4" Trim Halo
430222	6" Trim Anti-Tamper
430223	6" Trim Drop Glass
430224	6" Trim Halo
430210	6" to 8" Extender



Technical Information

Input	220-240V AC
Operating Temp	-20°C - +45°C*
Class	2
Connection Type	Flying Lead

*Emergency: 0°C - 30°C

Eyebrook

Lens Downlight



Specular Reflector
4" Part No: 430211
6" Part No: 430214



Silver Reflector
4" Part No: 430258
6" Part No: 430259



White Reflector
4" Part No: 430213
6" Part No: 430216



Black Reflector
4" Part No: 430212
6" Part No: 430215



Copper Reflector
4" Part No: 430545
6" Part No: 430546



Anti Tamper Trim
4" Part No: 430219
6" Part No: 430222



Halo Trim
4" Part No: 430221
6" Part No: 430224



Drop Glass Trim
4" Part No: 430220
6" Part No: 430223

- Interchangeable reflectors and trims.
- UGR <19
- Aluminium heatsink provides excellent thermals
- High efficiency up to 130 lm/W

UGR <19



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430206	Eyebrook Lens Downlight UGR Semi-Specular 60° 4" - White	13W	4000K	1,700	130
430207	Eyebrook Lens Downlight UGR Semi-Specular 60° 6" - White	18W	4000K	2,350	130
430208	Eyebrook Lens Downlight UGR Semi-Specular 60° 6" - White	25W	4000K	3,000	120
430209	Eyebrook Lens Downlight UGR Semi-Specular 60° 6" - White	35W	4000K	3,850	110

Lumens based on 4000K

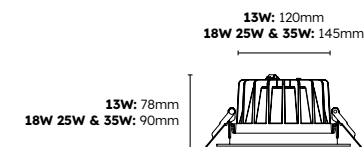
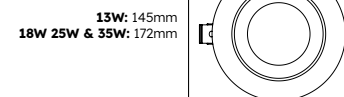
Option No.	Description
430971	Grafham E-SEL3 2W Emergency Pack
430265	Triac Dimmable Driver 10W - 24W
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC



6" to 8" Extender
Part No: 430210

Option No.	Description
430211	4" Reflector Specular
430212	4" Reflector -Black
430213	4" Reflector - White
430258	4" Reflector - Silver
430545	4" Reflector - Copper
430214	6" Reflector Specular
430215	6" Reflector - Black
430216	6" Reflector - White
430259	6" Reflector - Silver
430546	6" Reflector - Copper

Option No.	Description
430217	4" Bezel Black
430218	6" Bezel Black
430219	4" Trim Anti-Tamper
430220	4" Trim Drop Glass
430221	4" Trim Halo
430222	6" Trim Anti-Tamper
430223	6" Trim Drop Glass
430224	6" Trim Halo
430210	6" to 8" Extender



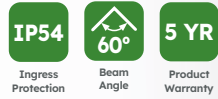
Technical Information

Input	220-240V AC
Operating Temp	-20°C - +45°C
Class	2
Connection Type	Flying Lead

*Emergency: 0°C - 30°C

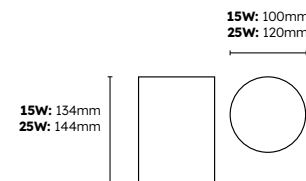
Eyebrook

Surface Downlights



- Low glare lens design
- Compact modern cylindrical mounted design
- Easy installation
- Integrated LED driver

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430227-WH	Eyebrook Surface Lens Downlight Semi-Specular 60° 4" - White	15W	4000K	1,650	110
430227-BL	Eyebrook Surface Lens Downlight Semi-Specular 60° 4" - Black	15W	4000K	1,650	110
430228-WH	Eyebrook Surface Lens Downlight Semi-Specular 60° 4" - White	25W	4000K	2,750	110
430228-BL	Eyebrook Surface Lens Downlight Semi-Specular 60° 4" - Black	25W	4000K	2,750	110



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +45°C
Class	1
Connection Type	Push Terminal

Tunstall

Wattage selectable: 6W/8W, 10W/15W, 20W/30W
 3CCT selectable: 3000K, 4000K, 6000K



- Low glare lens design
- Selectable wattage via driver
- Easy installation

UGR <19



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430695	Tunstall 4" Dual Wattage Downlight White	6W/8W	3CCT	600/800	100
430696	Tunstall 6" Dual Wattage Downlight White	10W/15W	3CCT	1,000/1,500	100
430697	Tunstall 8" Dual Wattage Downlight White	20W/30W	3CCT	2,000/3,000	100

Lumens based on 4000K

Option No.	Description
430971	Grafham E-SEL3 2W Emergency Pack
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC
430265	Triac Dimmable Driver 10W - 24W
430266	Triac Dimmable Driver 18W - 32W



Multi Dimmable Driver 8W - 22W
Part No. 430268



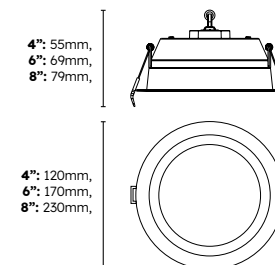
Multi Dimmable Driver 24W - 42W
Part No. 430269



Triac Dimmable Driver 10W - 24W
Part No. 430265



Triac Dimmable Driver 18W - 32W
Part No. 430266



Technical Information

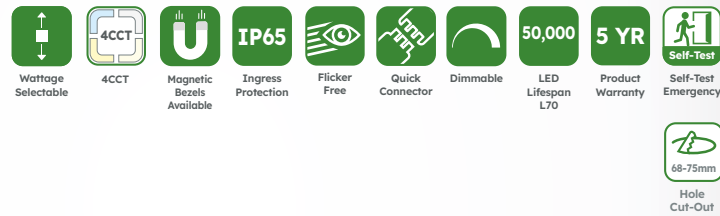
Input	220-240V AC
Operating Temp	0°C - +40°C
Class	2
Connection Type	Push Terminal

*Emergency: 0°C - 30°C

Avon Pro

Wattage selectable: 4W/6W

4CCT selectable: 2700K, 3000K, 4000K, 6000K



AVON PRO



- Complies with parts B, C, E and L of Building Regulations
- Suitable for solid or stranded cable Ø 0.75 – 2.5mm²
- Wattage and 4CCT switch behind magnetic bezels
- Fully tested for 30, 60 and 90 minutes fire rated
- Meets STA Pattern Book fire test requirements
- Quick connector with LENNEL lever terminal
- High efficiency 135 lm/W
- Triac Dimmable, see datasheet



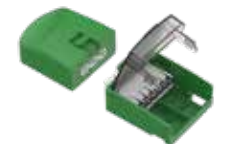
Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430850	Avon PRO Dual Wattage 4CCT Fire Rated Downlight	4W/6W	4CCT	550/800	135
430850-MP	Avon PRO Dual Wattage 4CCT Fire Rated Downlight 8x Multipack	4W/6W	4CCT	550/800	135

Lumens based on 4000K

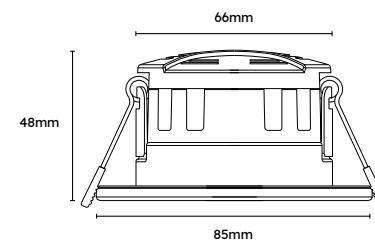
Option No.	Description
430967	Grafham ESEL3 Avon Emergency Conversion Pack
430852	Black Bezel
430853	Chrome Bezel
430854	Brushed Chrome Bezel
430851	Brass Bezel



8x Multipack
Part No: 430850-MP



LENNEL Quick Connector
Supplied



Fire Rated	30 min	60 min	90 min
Solid Joist	•	•	•
Web joist	•	•	•
I Joist	•	•	•

Technical Information	
Input	220-240V AC
Operating Temp	-10°C - +45°C
Class	2
Connection Type	Lever Terminal

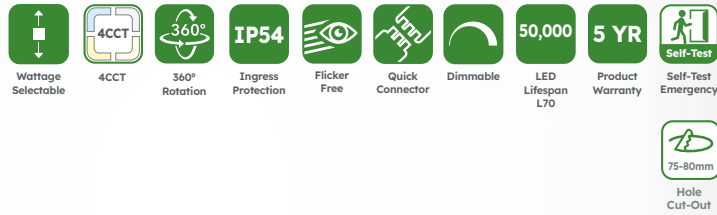
*Emergency: 0°C - 30°C

Avon Pro Gimbal

Wattage selectable: 4W/6W

4CCT selectable: 2700K, 3000K, 4000K, 6000K

AVON PRO



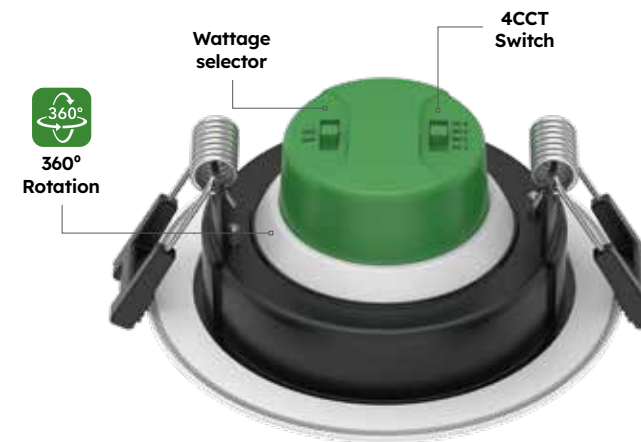
- Complies with parts B, C, E and L of Building Regulations
- Suitable for solid or stranded cable Ø 0.75 – 2.5mm²
- Fully tested for 30, 60 and 90 minutes fire rated
- Meets STA Pattern Book fire test requirements
- Quick connector with LENNEL lever terminal
- High efficiency 130 lm/W
- Full 360° gimbal rotation
- Triac Dimmable, see datasheet



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430860	Avon PRO Dual Wattage 4CCT Gimbal Fire Rated Downlight - White Bezel	4W/6W	4CCT	525/775	130
430860-MP	Avon PRO Dual Wattage 4CCT Gimbal Fire Rated Downlight - White Bezel - 8x Multipack	4W/6W	4CCT	525/775	130
430861	Avon PRO Dual Wattage 4CCT Gimbal Fire Rated Downlight - Black Bezel	4W/6W	4CCT	525/775	130
430862	Avon PRO Dual Wattage 4CCT Gimbal Fire Rated Downlight - Brushed Chrome Bezel	4W/6W	4CCT	525/775	130
430863	Avon PRO Dual Wattage 4CCT Gimbal Fire Rated Downlight - Chrome Bezel	4W/6W	4CCT	525/775	130

Lumens based on 4000K

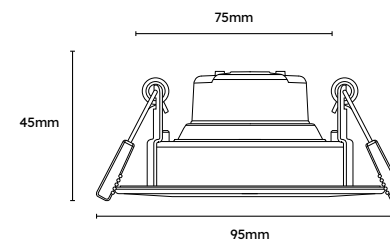
Option No.	Description
430967	Grafham ESEL3 Avon Emergency Conversion Pack



8x Multipack
Part No: 430860-MP



LENNEL Quick Connector
Supplied



Fire Rated	30 min			60 min			90 min		
	Joist	Web	I Joist	Joist	Web	I Joist	Joist	Web	I Joist
Solid Joist	•	•	•	•	•	•	•	•	•
Web Joist	•	•	•	•	•	•	•	•	•
I Joist	•	•	•	•	•	•	•	•	•

Technical Information

Input	220-240V AC
Operating Temp	-10°C - +45°C
Class	2
Connection Type	Lever Terminal

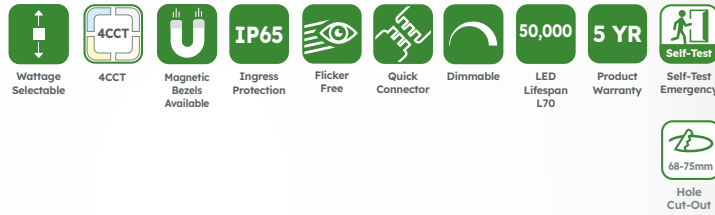
*Emergency: 0°C - 30°C

Avon Pro Anti-Glare

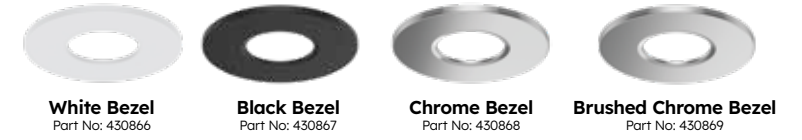
Wattage selectable: 6W/8W

4CCT selectable: 2700K, 3000K, 4000K, 6000K

AVON PRO



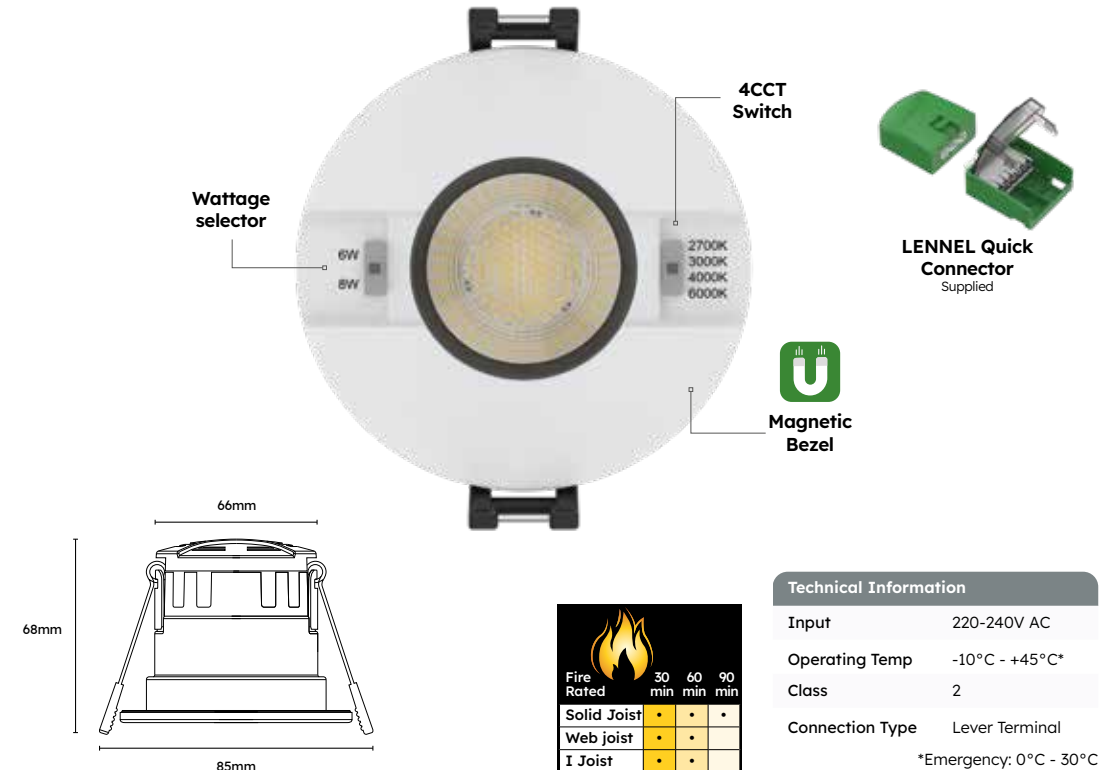
- Complies with parts B, C, E and L of Building Regulations
- Suitable for solid or stranded cable Ø 0.75 – 2.5mm²
- Wattage and 4CCT switch behind magnetic bezels
- Fully tested for 30, 60 and 90 minutes fire rated
- Meets STA Pattern Book fire test requirements
- Quick connector with LENNEL lever terminal



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430864	Avon PRO Dual Wattage 4CCT Anti-Glare Fire Rated Downlight White Bezel with White Insert	6W/8W	4CCT	575/750	95
430865	Avon PRO Dual Wattage 4CCT Anti-Glare Fire Rated Downlight White Bezel with Black Insert	6W/8W	4CCT	550/725	90

Lumens based on 4000K

Option No.	Description
430967	Grafham ESEL3 Avon Emergency conversion pack
430866	White Bezel
430867	Black Bezel
430868	Chrome Bezel
430869	Brushed Chrome Bezel



Technical Information	
Input	220-240V AC
Operating Temp	-10°C - +45°C*
Class	2
Connection Type	Lever Terminal

*Emergency: 0°C - 30°C

Fire Rated	30 min			60 min			90 min		
	Solid Joist	Web joist	I Joist	Solid Joist	Web joist	I Joist	Solid Joist	Web joist	I Joist
Yes	•	•	•	•	•	•	•	•	•

Avon One

Fire Rated Downlight

AVON ONE

- IP65**
Ingress Protection
- Flicker Free
- Push-Fit Terminals
- Dimmable
- 25,000**
LED Lifespan L70
- 3 YR**
Product Warranty

70mm Hole Cut-Out



- Complies with parts B, C, E and L of Building Regulations
- Fully tested for 30, 60 and 90 minutes
- Tested for use in Solid Joist, I-Joist and Steel Open Web Joist ceilings
- Suitable for solid or stranded cable \varnothing 0.75 - 2.5mm²
- Designed to work with insulation
- 3000K and 4000K options
- Triac Dimmable, see datasheet
- Clip on Bezels



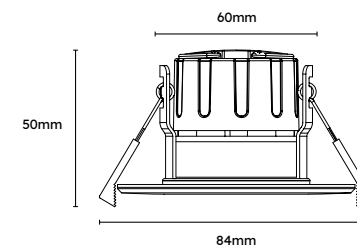
Stain Nickel Bezel
Part No: 430648



Brushed Chrome Bezel
Part No: 430757

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430650	Avon ONE Fire Rated Downlight White	5W	3000K	550	110
430650-MP	Avon ONE Fire Rated Downlight White (8x Multipack)	5W	3000K	550	110
430651-MP	Avon ONE Fire Rated Downlight White (8x Multipack)	5W	4000K	550	110

Option No.	Description
430648	Stain Nickel Bezel
430757	Brushed Chrome Bezel



Fire Rated	30 min 60 min 90 min		
	Solid Joist	•	•
Web joist	•	•	•
I Joist	•	•	•

Technical Information	
Input	220-240V AC
Operating Temp	-10°C - +40°C
Class	2
Connection Type	Push-Fit Terminal

Blakeley

Pendant Light

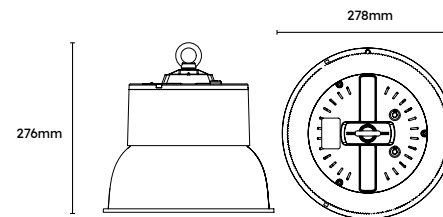
- IP42**
Ingress Protection
- 100°**
Beam Angle
- 50,000**
LED Lifespan L70
- 5 YR**
Product Warranty



- Compact modern cylindrical mounted design
- Easy installation
- Low glare polycarbonate reflector



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430684	Blakeley Retail Pendant - White	30W	4000K	4,200	140
430686	Blakeley Retail Pendant - White	75W	4000K	10,500	140



Technical Information	
Input	220-240V AC
Operating Temp	-30°C - +40°C
Class	1
Connection Type	Flying Lead



Industrial



172

Derwent



174

Denton



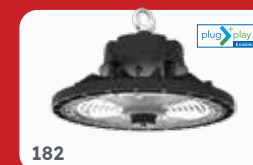
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Meadley



180

Foremark



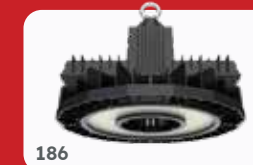
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Foremark Plus



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Netherton



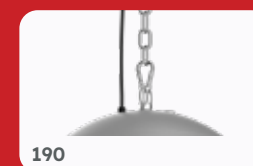
186

Loscoe



188

Lockwood



190

Reva



Cross Compatible Sensors Twist & click. Just Plug & Play.

Lumineux's new range of Plug & Play High Bays makes installation of sensors truly effortless with our new Alwen and Crown range. Compatible with our **Meadley**, **Foremark**, **Netherton**, **Lockwood** and **Derwent** High Bays.



Innovation Meets Simplicity

Cross Compatible Modules for our High Bays.

Cross Compatible Emergency

At Lumineux we have developed two Plug & Play emergency pack options:

1. Our **ESEL3 Grafham Linear High Bay** Emergency pack which is compatible with our **Netherton** and **Derwent**.
2. Our **ESEL3 Grafham High Bay** Emergency pack which is compatible with our **Meadley** and **Foremark**.

Grafham Emergency Pack featuring E-SEL3 technology with a 5-year warranty LiFePO4 battery. Designed for plug-and-play installation and an easily replaceable battery.





Cross-Compatibility Minimal Inventory = Maximum Flexibility



Microwave, PIR & Trusmart

Our Plug & Play Sensor Range are straight out of the box – simply plug your sensor in to any of our compatible ranges and you're ready to go.



Our Emergency module benefits from both Self-test and Manual Switching built in. We call it 'Emergency Selectable' or E-SEL3 for short.

E-SEL3
Part No. 430965

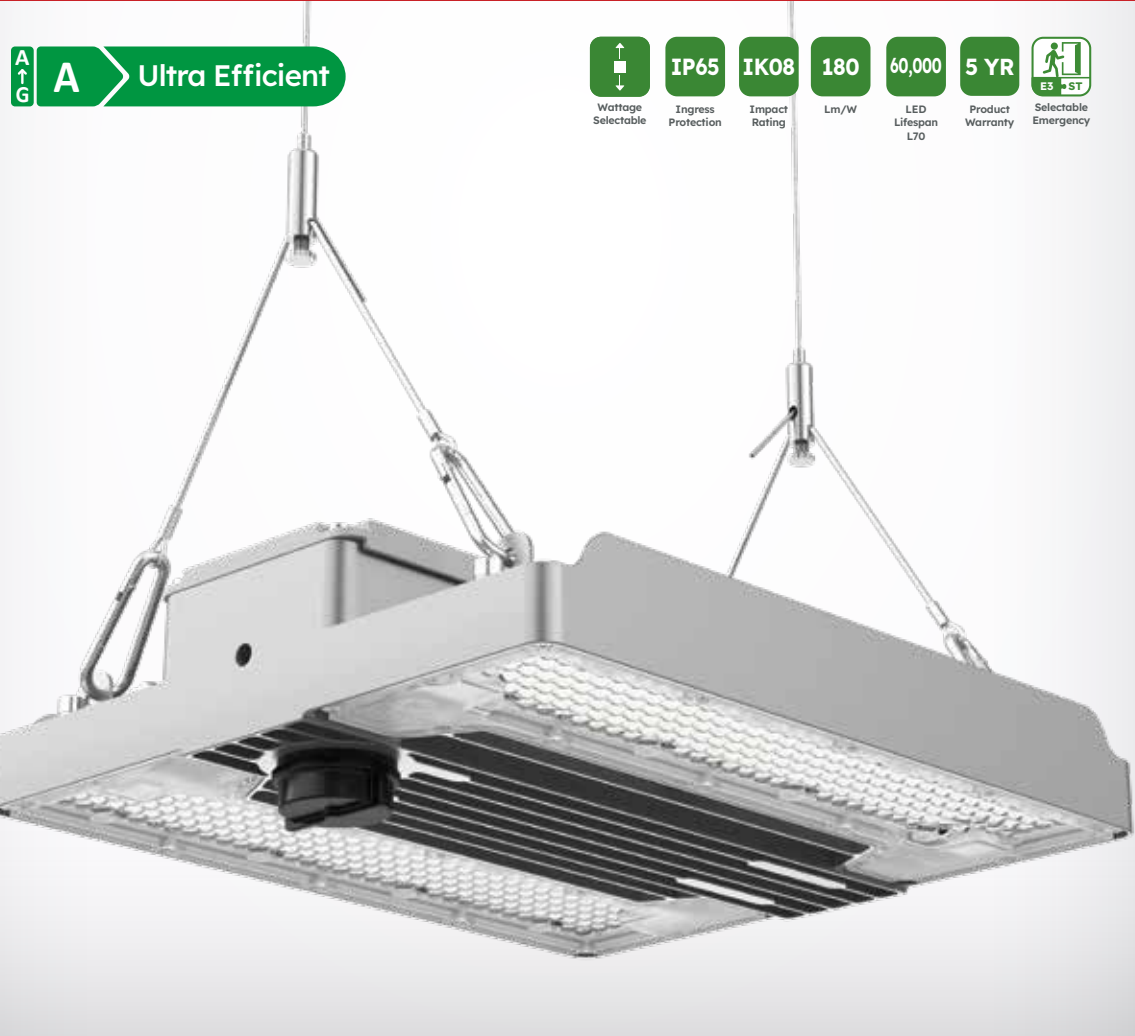
High Bay Emergency
Our ESEL3 Grafham High Bay Emergency pack which is compatible with our Meadley, Foremark and Foremark Plus.

E-SEL3
Part No. 430964

Linear High Bay Emergency
Our ESEL3 Grafham Linear High Bay Emergency pack which is compatible with our Netherton and Derwent.

Derwent

Wattage selectable: 75W/95W/118W
Mid Bay



A ↑ G **A** Ultra Efficient

- 
Wattage Selectable
- 
IP65
Ingress Protection
- 
IK08
Impact Rating
- 
180
Lm/W
- 
60,000
LED Lifespan L70
- 
5 YR
Product Warranty
- 
Selectable Emergency

- Wattage selectable (3 options)
- **Highly efficient - 180 lm/W**
- Suspension kit included
- Sleek, compact design
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor

THINK! LUMENS NOT WATTS

truSmart intelligent controls
Compatible

plug+play Enabled

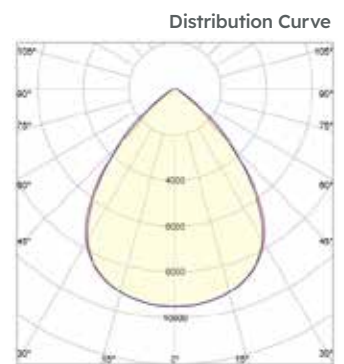
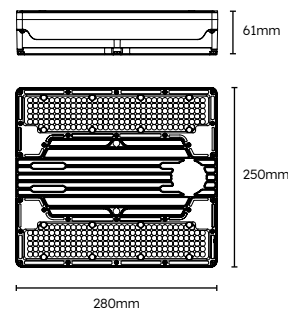
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Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431175-85	Derwent Mid Bay - Grey Plug & Play	75W/95W/118W	5000K	13,500/17,100/21,200	180

Option No.	Description	Lumens
430964	Grafham Linear High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	
431176	Fixed Bracket	
431174	Emergency Pack Mounting Bracket	

Technical Information	
Input	100-240V AC
Operating Temp	-30°C - +50°C*
Class	1
Connection Type	Flying Lead

*Emergency Temp: 0°C - 30°C



Denton

High Bay



- IP65**
Ingress Protection
- IK08**
Impact Rating
- 110°**
Beam Angle
- 50,000**
LED Lifespan L70
- 3 YR**
Product Warranty



- Lightweight high bay with clean, slim design
- Supplied with 1M prewired cable
- Frosted glass for even light distribution



100W
Part No: 430658-110

150W
Part No: 430659-110

200W
Part No: 430660-110

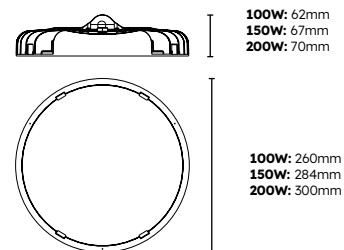
Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430658-110	Denton High Bay Black	100W	5000K	12,000	120
430659-110	Denton High Bay Black	150W	5000K	18,000	120
430660-110	Denton High Bay Black	200W	5000K	24,000	120

Brackets and Mounting options

430679	Denton High Bay Fixed Bracket
430680	Safety Carabiner for High Bay



Denton High Bay Fixed Bracket
Part No: 430679



Technical Information

Input	220-240V AC
Operating Temp	-30°C - +40°C
Class	1
Connection Type	Flying Lead

Meadley

Wattage selectable: 75W/95W/118W
High Bay - Zhaga Plug & Play



- Wattage Selectable
- Supplied with 1.5M prewired H05RN-F cable
- 90° or 120° optic options
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor



THINK! LUMENS NOT WATTS



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431178-120	Meadley High Bay 120° - Black Plug & Play	50W/70W/100W	5000K	7,750/10,850/15,500	155
431179-120	Meadley High Bay 120° - Black Plug & Play	85W/115W/150W	5000K	13,175/17,825/23,250	155
431180-120	Meadley High Bay 120° - Black Plug & Play	115W/155W/200W	5000K	17,825/24,025/31,000	155
431178-90	Meadley High Bay 90° - Black Plug & Play	50W/70W/100W	5000K	7,750/10,850/15,500	155
431179-90	Meadley High Bay 90° - Black Plug & Play	85W/115W/150W	5000K	13,175/17,825/23,250	155
431180-90	Meadley High Bay 90° - Black Plug & Play	115W/155W/200W	5000K	17,825/24,025/31,000	155

Option No.	Description	Lumens
430965	Grafham High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	

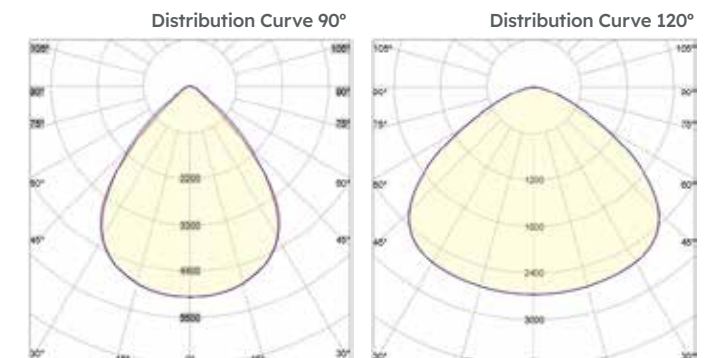
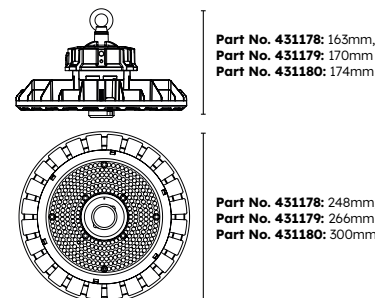
Brackets and Mounting options	
430519	Meadley High Bay Fixed Bracket
431173	Adjustable Bracket
401063	Polycarbonate Diffuser (200W only)



Technical Information

Input	100-240V AC
Operating Temp	-30°C - +50°C*
Class	1
Connection Type	Flying Lead

*Emergency Temp: 0°C - 30°C





Pharmacy Warehouse

With the installation of truSmart controls and Foremark Plus LED fittings, this Pharmacy's new warehouse and distribution centre benefits from substantial energy savings, enhanced lighting quality and straightforward,

centralised control. The system is designed to reduce operational costs and streamline maintenance, while providing a flexible and sustainable lighting solution that aligns well with the centre's logistical needs.

“...providing precise control, robust energy savings, and an adaptable lighting environment to support the centre's day-to-day operations”



Foremark

High Bay - Zhaga Plug & Play



IP65 Ingress Protection	IK08 Ingress Protection	145 Lm/W	60,000 LED Lifespan L70	5 YR Product Warranty	 Selectable Emergency
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- Supplied with 1.5M prewired H05RN-F cable
- Sosen LED Driver
- 90° or 120° optic options
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430733-90	Foremark 90° Optic Zhaga - Black Plug & Play	100W	5000K	14,500	145
430734-90	Foremark 90° Optic Zhaga - Black Plug & Play	150W	5000K	21,750	145
430735-90	Foremark 90° Optic Zhaga - Black Plug & Play	200W	5000K	29,000	145
430733-120	Foremark 120° Optic Zhaga - Black Plug & Play	100W	5000K	14,500	145
430734-120	Foremark 120° Optic Zhaga - Black Plug & Play	150W	5000K	21,750	145
430735-120	Foremark 120° Optic Zhaga - Black Plug & Play	200W	5000K	29,000	145

Option No.	Description	Lumens
430965-R2	Grafham High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	

Brackets and Mounting options	
430341	Foremark Adjustable Bracket (3 Part)
431173	Adjustable Bracket
401063	Polycarbonate Diffuser

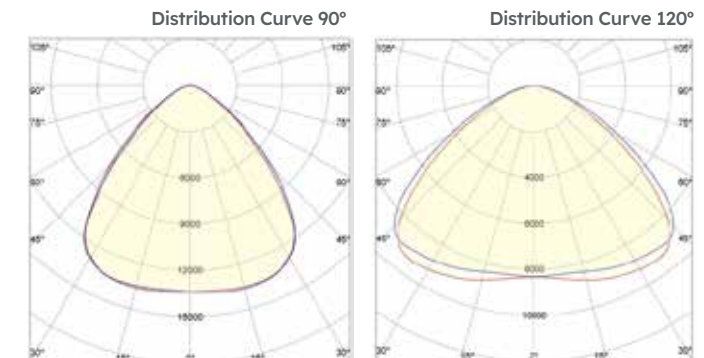
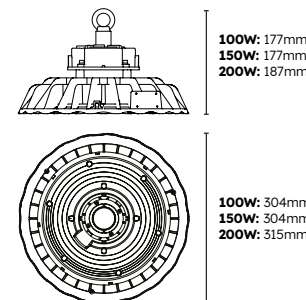


Foremark Adjustable Bracket (3 Part)
Part No: 430341

Technical Information

Input	120-240V AC
Operating Temp	-30°C - +50°C*
Class	1
Connection Type	Flying Lead

*Emergency Temp: 0°C - 30°C



Foremark Plus

High Bay - Zhaga Plug & Play

A Ultra Efficient

IP65 Ingress Protection
IK08 Ingress Protection
205 Lm/W
60,000 LED Lifespan L70
5 YR Product Warranty
 Selectable Emergency



- Supplied with 1.5M prewired H05RN-F cable
- **'A' rated product that delivers over 205 lm/W**
- 90° or 120° optic options
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor

THINK! LUMENS NOT WATTS

Available with DALI

truSmart intelligent controls Compatible

plug+play Enabled

E-SEL3 High Bay Emergency Part No. 430965-R2

Alwen Zhaga PIR Part No. 430568

Alwen Zhaga Microwave Part No. 430569

Crown Zhaga truSmart PIR Part No. 430625

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430642-90	Foremark Plus 90° Optic Zhaga - Black Plug & Play	75W	5000K	15,375	205
430643-90	Foremark Plus 90° Optic Zhaga - Black Plug & Play	110W	5000K	22,550	205
430644-90	Foremark Plus 90° Optic Zhaga - Black Plug & Play	150W	5000K	30,750	205
430642-120	Foremark Plus 120° Optic Zhaga - Black Plug & Play	75W	5000K	15,375	205
430643-120	Foremark Plus 120° Optic Zhaga - Black Plug & Play	110W	5000K	22,550	205
430644-120	Foremark Plus 120° Optic Zhaga - Black Plug & Play	150W	5000K	30,750	205

Option No.	Description	Lumens
430965-R2	Grafham High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	

Brackets and Mounting options	
430341	Foremark Adjustable Bracket (3 Part)
431173	Universal High Bay Rotatable Bracket

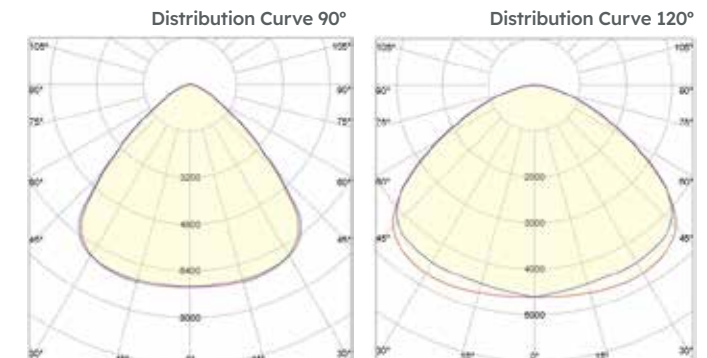
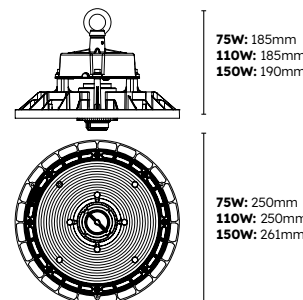


Foremark Adjustable Bracket (3 Part)
Part No: 430341

Technical Information

Input	120-240V AC
Operating Temp	-30°C - +50°C*
Class	1
Connection Type	Flying Lead

*Emergency Temp: 0°C - 30°C

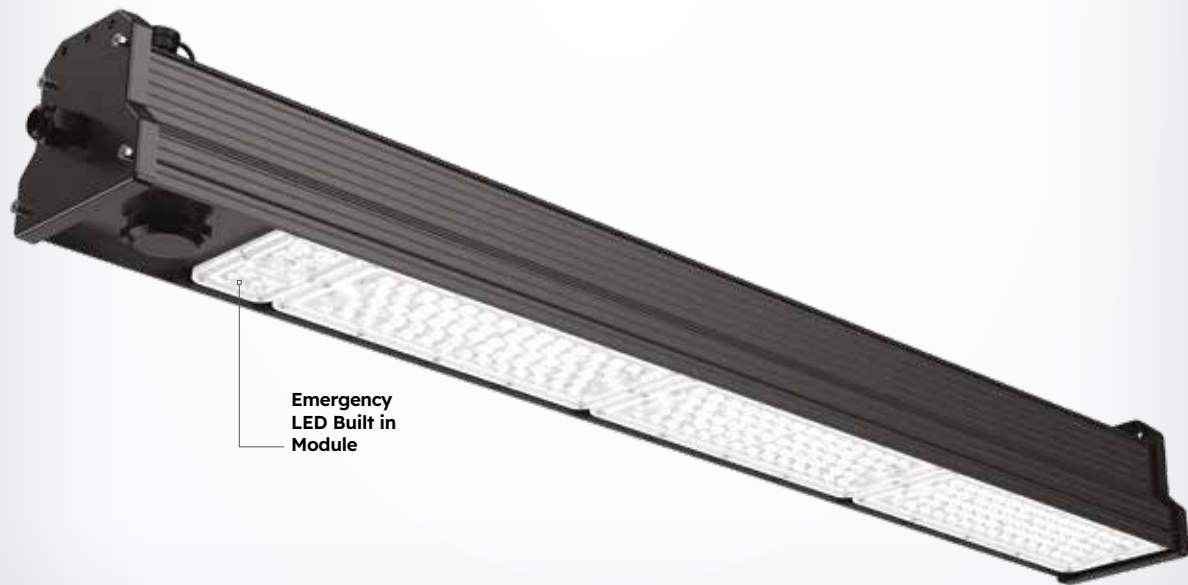


Netherton

Linear High Bay - Zhaga Plug & Play

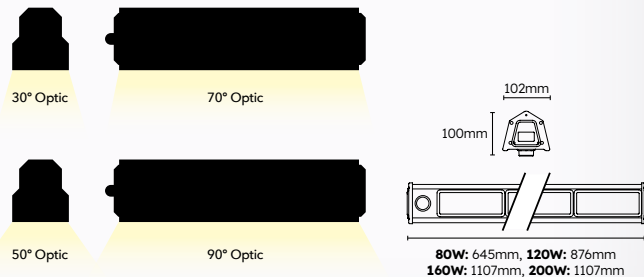


- IP65**
Ingress Protection
- 170**
Lm/W
- IK08**
Impact Rating
- 50,000**
LED Lifespan L70
- 5 YR**
Product Warranty
-



Emergency LED Built in Module

- Lightweight design
- Optics ideal for racked aisle
- Supplied with 1.5m suspension kit
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor



THINK! LUMENS NOT WATTS



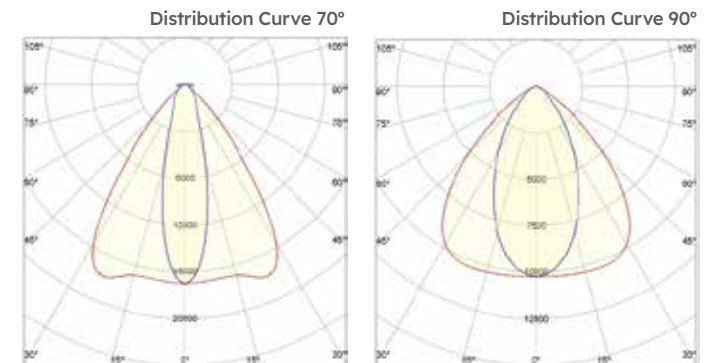
Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431181-70	Netherton Linear High Bay 30°x70° - Black Plug & Play	80W	5000K	13,600	170
431181-90	Netherton Linear High Bay 50°x90° - Black Plug & Play	80W	5000K	13,600	170
431182-70	Netherton Linear High Bay 30°x70° - Black Plug & Play	120W	5000K	20,400	170
431182-90	Netherton Linear High Bay 50°x90° - Black Plug & Play	120W	5000K	20,400	170
431183-70	Netherton Linear High Bay 30°x70° - Black Plug & Play	160W	5000K	27,200	170
431183-90	Netherton Linear High Bay 50°x90° - Black Plug & Play	160W	5000K	27,200	170
431184-70	Netherton Linear High Bay 30°x70° - Black Plug & Play	200W	5000K	34,000	170
431184-90	Netherton Linear High Bay 50°x90° - Black Plug & Play	200W	5000K	34,000	170

Option No.	Description	Lumens
430964	Grafham Linear High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	

Brackets and Mounting options	
431198	Adjustable Bracket
421363	Emergency Bracket Pair

Technical Information	
Input	100-240V AC
Operating Temp	-30°C - +40°C*
Class	1
Connection Type	Flying Lead

*Emergency Temp: 0°C - 30°C





- IP66**
Ingress Protection
- IK09**
Impact Rating
- 115°**
Beam Angle
- 160**
Lm/W
- 5 YR**
Product Warranty

Project order only

Please call for more information on the Loscoe and how Lumineux can offer a customisable option to ensure the right lighting solution.



- **C4 Corrosion protection**
- **Impact resistant tempered glass**
- **High ambient temperature up to 70°C**
- Outstanding cooling performance with excellent air cross-ventilation design

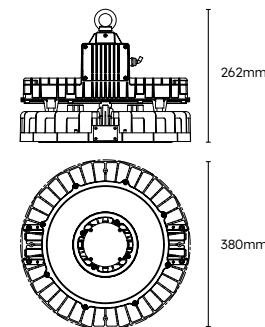
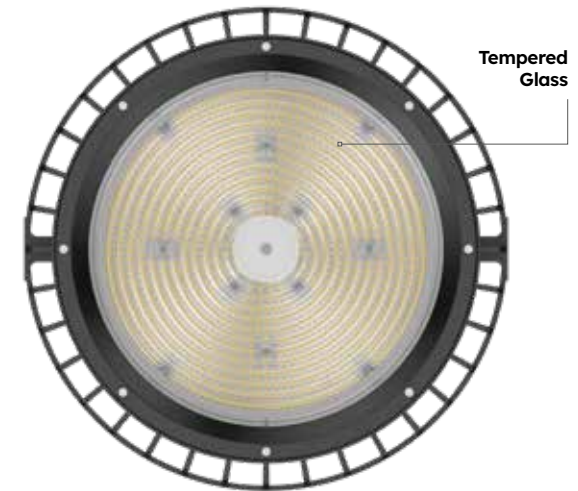


Suitable for high ambient temperatures

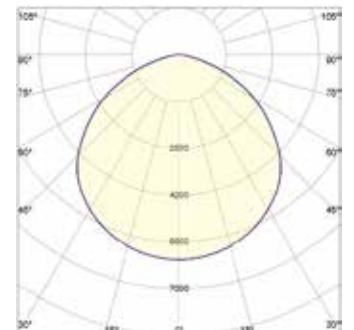
- Steel works
- Power stations



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430161	Loscoe High Bay 120° Glass - Black	120W	5000K	19,200	160
430162	Loscoe High Bay 120° Glass - Black	150W	5000K	24,000	160
430163	Loscoe High Bay 120° Glass - Black	200W	5000K	32,000	160



Distribution Curve



Technical Information	
Input	120-240V AC
Operating Temp	-30°C - +70°C
Class	1
Connection Type	Flying Lead

Lockwood UGR

High Bay - Zhaga Plug & Play



IP65 Ingress Protection	IK09 Impact Rating	85° Beam Angle	160 Lm/W	50,000 LED Lifespan L70	5 YR Product Warranty
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Project order only

Please call for more information on the Lockwood and how Lumineux can offer a customisable option to ensure the right lighting solution.



- Clean slim design
- Supplied with 1.5M prewired cable
- Low UGR optic lens
- Unique hollow design for superior thermals

THINK! **LUMENS**
NOT WATTS

DALI
Available with DALI

truSmart
intelligent controls
Compatible

plug+play
Enabled

Alwen Zhaga PIR
Part No. 430568

Alwen Zhaga Microwave
Part No. 430569

Crown Zhaga truSmart PIR
Part No. 430625

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
Custom	Lockwood High Bay - Black	100W	5000K	16,000	160
Custom	Lockwood High Bay - Black	150W	5000K	24,000	160
Custom	Lockwood High Bay - Black	200W	5000K	32,000	160

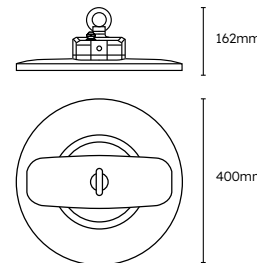
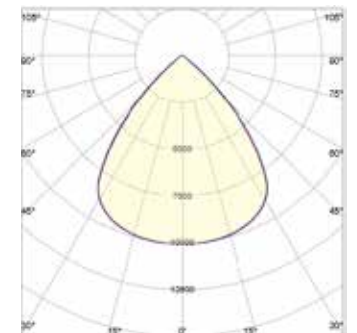
Option No.	0-10V Plug & Play Options	Lumens
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	

Option No.	DALI2 D4i Plug & Play Options
421127	Alwen High Bay Lens - TYPE H 18M
420798	Alwen High Bay Aisle Lens - TYPE G 15M
430487	Alwen Zhaga Plug & Play DALI Mesh
421125	Remote Control
430486	Alwen Zhaga Plug & Play 0-10V Mesh

Technical Information

Input	100-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	Flying Lead

Distribution Curve



Reva

High Bay

Project order only

Please call for more information on the Reva and how Lumineux can offer a customisable option to ensure the right lighting solution.

IP69K Ingress Protection	IP66 Ingress Protection	IK08 Impact Rating	150 Lm/W
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90° Beam Angle	80 CRI	60,000 LED Lifespan L70	5 YR Product Warranty
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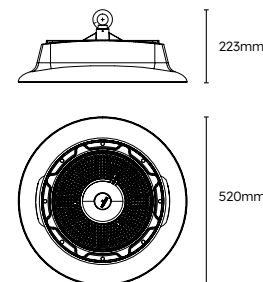
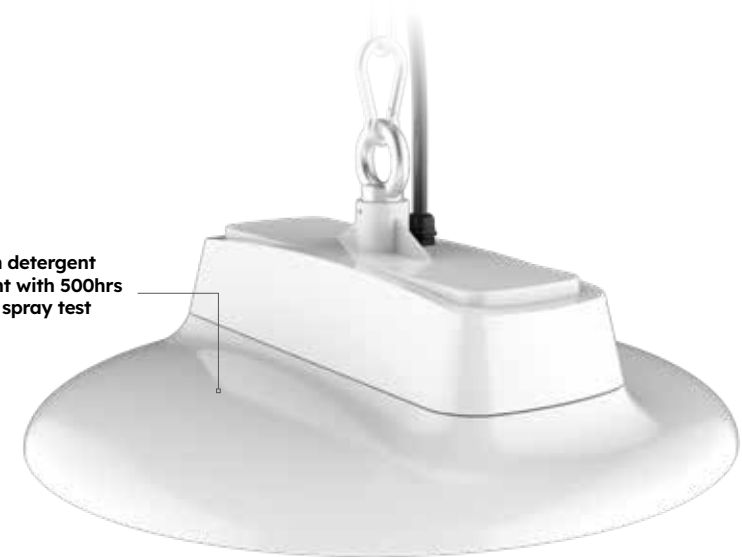


- Robust, smooth design with no exposed screws
- For use in food and beverage factories, food production and processing factories



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
420642	Reva High Bay	100W	5000K	15,000	150
420643	Reva High Bay	120W	5000K	18,000	150
420644	Reva High Bay	150W	5000K	22,000	150
420645	Reva High Bay	200W	5000K	30,000	150

High detergent resistant with 500hrs salt spray test



Technical Information	
Input	100-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	Flying Lead



Exterior



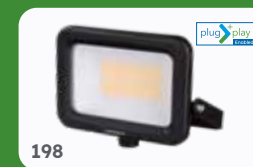
194

Melbury



196

Melbury PIR



198

Melbury Plus



200

Lifford



202

Lifford PIR



204

Frankly Plus



210

Tring



212

Windermere

Melbury

Floodlight

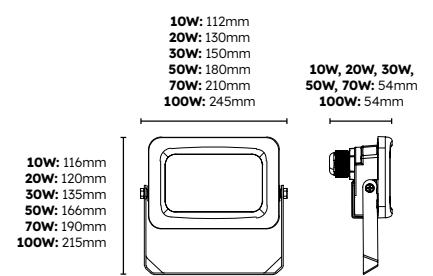
NEW

- IP65**
Ingress Protection
- IK06**
Impact Rating
- 100°**
Beam Angle
- 80**
CRI
- 50,000**
LED Lifespan L70
- 3 YR**
Product Warranty



- Diecast aluminium body
- Angled bracket for ease of installation
- Supplied with 1M prewired H05RN cable

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431370	Melbury Floodlight Black	10W	4000K	1,050	105
431371	Melbury Floodlight Black	20W	4000K	2,100	105
431372	Melbury Floodlight Black	30W	4000K	3,150	105
431373	Melbury Floodlight Black	50W	4000K	5,250	105
431374	Melbury Floodlight Black	70W	4000K	7,350	105
431375	Melbury Floodlight Black	100W	4000K	10,500	105



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +30°C
Cable Length	1M H05RN cable
Class	1
Connection Type	Flying Lead

Melbury PIR

Floodlight

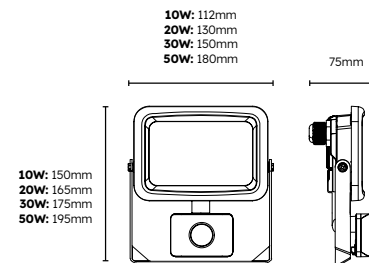
NEW



**Upgraded
Override Available**

- Diecast aluminium body
- Angled bracket for ease of installation
- Supplied with 1M prewired H05RN-F cable
- Solid state PIR sensor
- Manual override function

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431370-PIR	Melbury PIR Floodlight Black	10W	4000K	1,050	105
431371-PIR	Melbury PIR Floodlight Black	20W	4000K	2,100	105
431372-PIR	Melbury PIR Floodlight Black	30W	4000K	3,150	105
431373-PIR	Melbury PIR Floodlight Black	50W	4000K	5,250	105



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +30°C
Cable Length	1M H05RN-F cable
Class	1
Connection Type	Flying Lead

Melbury Plus

Plug & Play Floodlight

NEW



- IP65**
Ingress Protection
- IK06**
Impact Rating
- 100°**
Beam Angle
- 80**
CRI
- 50,000**
LED Lifespan L70
- 3 YR**
Product Warranty



DD Sensor
Part No. 431382

PIR Sensor
Part No. 431383



Cross-Compatibility
Minimal Inventory, Maximum Flexibility



DD Sensor
Part No. 431382

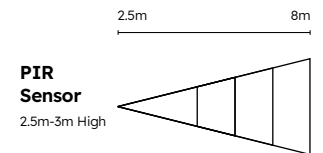
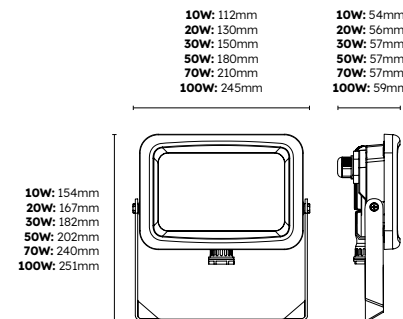
PIR Sensor
Part No. 431383

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431376	Melbury Plus Floodlight Black	10W	4000K	1,250	125
431377	Melbury Plus Floodlight Black	20W	4000K	2,500	125
431378	Melbury Plus Floodlight Black	30W	4000K	3,750	125
431379	Melbury Plus Floodlight Black	50W	4000K	6,250	125
431380	Melbury Plus Floodlight Black	70W	4000K	8,750	125
431381	Melbury Plus Floodlight Black	100W	4000K	12,500	125

Option No.	Description
431382	DD Sensor
431383	PIR Sensor

- **IP65 rated floodlight**
- Diecast aluminium body
- Angled bracket for ease of installation
- Supplied with 1M prewired H05RN-F cable
- PIR Override via remote

- **SENS:**
Adjustable sensitivity distance from 2.5 to 8 metres
- **TIME:**
Adjustable delay timer from 10 sec to 10 mins
- **LUX:**
Adjustable ambient lux 10-10,000



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +30°C
Cable Length	1M H05RN-F3G1.0 cable
Class	1
Connection Type	Flying Lead

Lifford

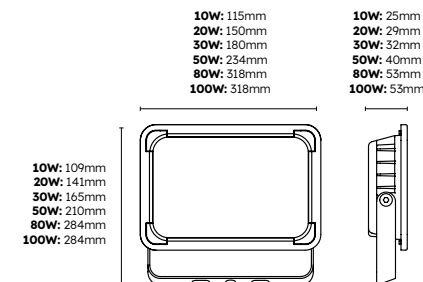
Floodlight

IP65 Ingress Protection	110° Beam Angle	80 CRI	30,000 LED Lifespan L70	3 YR Product Warranty
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- Diecast aluminium body
- Angled bracket for ease of installation
- Supplied with 1M prewired H05RN-F cable
- Breather valve to prevent condensation

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430017	Lifford Floodlight Black	10W	4000K	1,050	105
430018	Lifford Floodlight Black	20W	4000K	2,100	105
430019	Lifford Floodlight Black	30W	4000K	3,150	105
430020	Lifford Floodlight Black	50W	4000K	5,250	105
430021	Lifford Floodlight Black	80W	4000K	8,400	105
430022	Lifford Floodlight Black	100W	4000K	10,500	105



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +30°C
Cable Length	1M H05RN-F3G1.0 cable
Class	1
Connection Type	Flying Lead

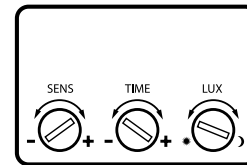
Lifford PIR

Floodlight

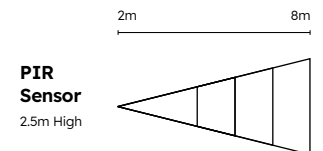
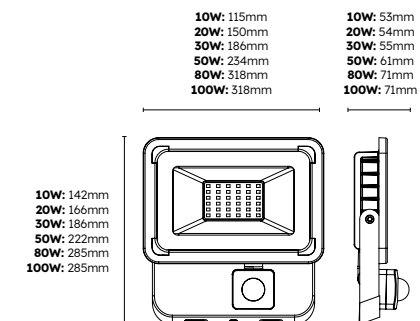


- Diecast aluminium body
- Angled bracket for ease of installation
- Supplied with 1M prewired H05RN-F cable
- Solid state PIR sensor

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430017-PIR	Lifford Floodlight PIR-Black	10W	4000K	1,050	105
430018-PIR	Lifford Floodlight PIR-Black	20W	4000K	2,100	105
430019-PIR	Lifford Floodlight PIR-Black	30W	4000K	3,150	105
430020-PIR	Lifford Floodlight PIR-Black	50W	4000K	5,250	105
430021-PIR	Lifford Floodlight PIR-Black	80W	4000K	8,400	105
430022-PIR	Lifford Floodlight PIR-Black	100W	4000K	10,500	105



- **SENS:**
Adjustable sensitivity distance from 2 to 8 metres
- **TIME:**
Adjustable delay timer from 10 sec to 7 mins
- **LUX:**
Adjustable ambient lux



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +30°C
Cable Length	1M H05RN-F 3 core
Class	1
Connection Type	Flying Lead

Frankly Plus

50W - 300W Floodlights

The Frankly Plus is a professional high-performance range of exterior floodlights. Utilising the power of optics and producing 180LPCW output, this product delivers outstanding performance whatever the weather. It's IP66 and harsh weather rating means it can withstand the most challenging of environments.

THINK! LUMENS NOT WATTS

Lumineux is leading the way in the next generation of LED Lighting! Products with this logo have maximised ROI due to new higher lumen efficiency and reduced wattage.

Old Frankly Plus		New Frankly Plus	
Watts	Lumens	Watts	Lumens
100W	13,000	75W	13,500
150W	19,500	100W	17,000
200W	26,000	150W	27,000
240W	31,200	200W	36,000
300W	39,000	240W	43,200
400W	52,000	300W	54,000

A ↑ G **A** Ultra Efficient

IP66
Ingress Protection

IK08
Impact Rating

180
Lm/W

70
CRI

50,000
LED Lifespan L70

5 YR
Product Warranty



Frankly Plus

Floodlight - Asymmetric

A Ultra Efficient

- IP66**
Ingress Protection
- IK08**
Impact Rating
- 180**
Lm/W
- 70**
CRI
- 60,000**
LED Lifespan L70
- 5 YR**
Product Warranty



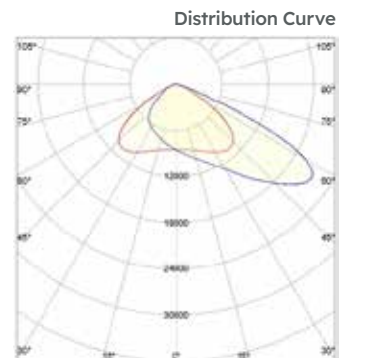
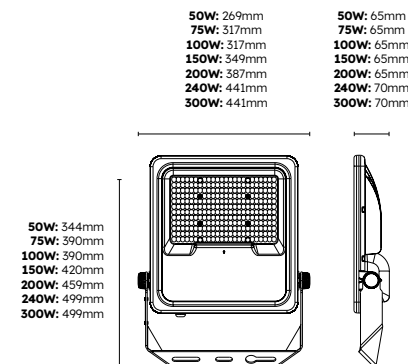
- Asymmetric optic - 50° x 120° P55D
- Supplied with 1.5M prewired H05RN-F cable
- Angled bracket for ease of installation
- 6kVA L/N-PE surge protection
- Diecast aluminium body
- Breather valve to prevent condensation

THINK! LUMENS NOT WATTS

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430974	Frankly Plus Floodlight Black	50W	4000K	9,000	180
430975	Frankly Plus Floodlight Black	75W	4000K	13,500	180
430976	Frankly Plus Floodlight Black	100W	4000K	18,000	180
430977	Frankly Plus Floodlight Black	150W	4000K	27,000	180
430979	Frankly Plus Floodlight Black	200W	4000K	36,000	180
430980	Frankly Plus Floodlight Black	240W	4000K	43,000	180
430981	Frankly Plus Floodlight Black	300W	4000K	54,000	180

Option No.	Description
-DD	Dusk to Dawn (50W, 75W, 100W, 150W and 200W only)

Technical Information	
Input	220-240V AC
Operating Temp	-30°C - +45°C
Cable Length	1.5M H05RN-F 3 core
Class	1
Connection Type	Flying Lead



Case Study



Outdoor Tennis Courts

David Lloyd Leisure upgraded several locations within the group with Lumineux products installed. The group wanted to upgrade the exterior tennis court lighting to enhance visibility for players while

maintaining energy efficiency. Collaborating with our Lighting Design team, a tailored solution was developed to replace their existing lighting with an advanced LED alternative. Across

the courts, Harlock High Court fittings were installed, delivering significantly improved illumination and substantial savings in both energy consumption and maintenance costs.

David Lloyd
CLUBS



Tring

RGBW Floodlights

- IP65**
Ingress Protection
- 120°**
Beam Angle
- 80**
CRI
- 30,000**
LED Lifespan L70
- 3 YR**
Product Warranty

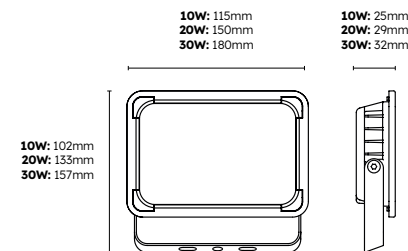


- RGBW colours
- Built in memory function
- Supplied with 1M prewired H05RN-F cable
- Remote included
- Angled brackets for ease of installation



Above: Colmers Hill
Remembrance day

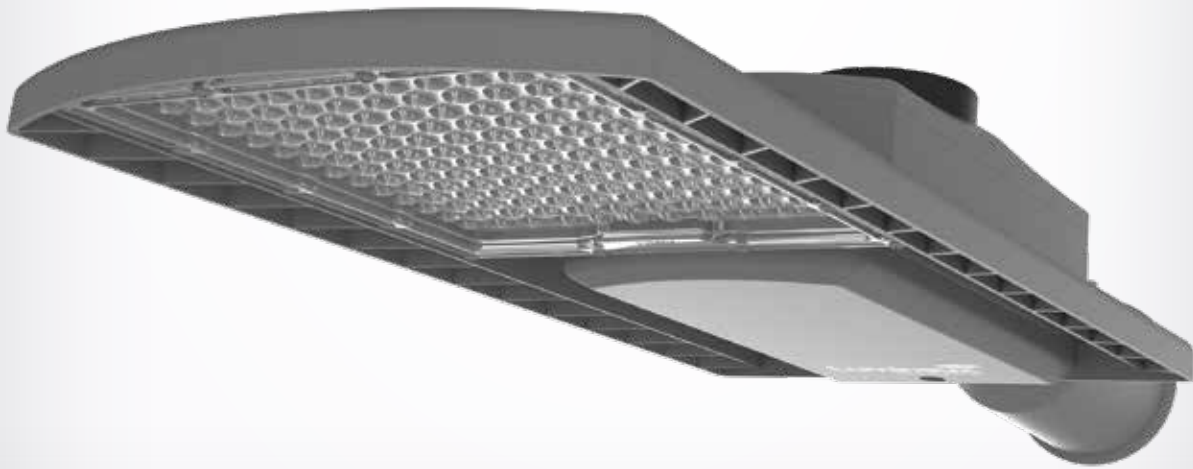
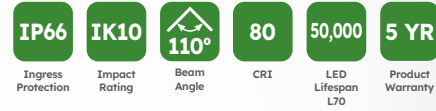
Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430013	Tring Floodlight Black	10W	RGBW	800	80
430014	Tring Floodlight Black	20W	RGBW	1,600	80
430015	Tring Floodlight Black	30W	RGBW	2,400	80



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +30°C
Cable Length	1M H05RN-F 3 core
Class	1
Connection Type	Flying Lead

Windermere

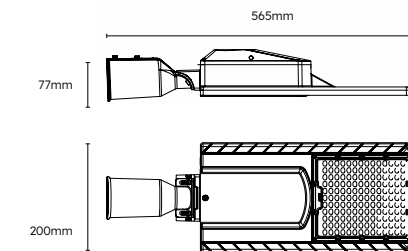
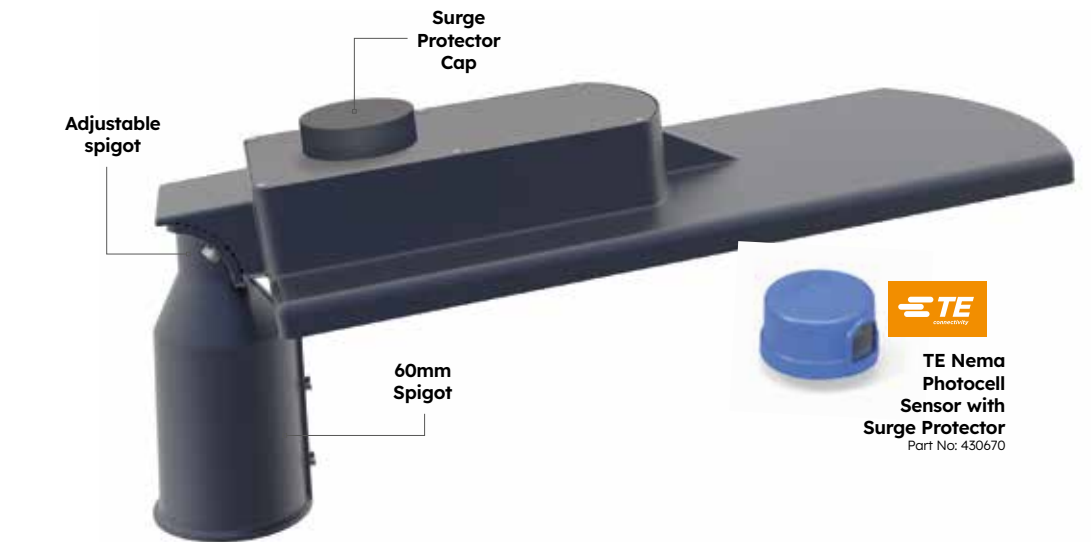
Streetlights



- Type III optic
- Supplied with NEMA socket with 15kA Surge Protected shorting cap
- TE Photocell option with a 15kA Surge Protection
- One piece, die-cast housing with UV resistant polycarbonate optical lens
- Integral cooling fin provides excellent thermal dissipation
- Supplied with rotating, adjustable bracket
- Additional, multi-bracket options available

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430611	Windermere Streetlight Basalt Grey	30W	4000K	4,350	145
430612	Windermere Streetlight Basalt Grey	50W	4000K	7,250	145
430613	Windermere Streetlight Basalt Grey	70W	4000K	10,150	145

Option No.	Description
430670	TE Nema Photocell Sensor with Surge Protector



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +30°C
Cable Length	1.5M H05RN-F3G1.0 cable
Class	1
Connection Type	Flying Lead



Emergency



218

Darwell



220

Draycote



222

Redbrook



224

Fontburn



226

Woodhead



228

Napton



230

Grafham Range

E-SEL3

What is E-SEL3?

E-SEL3 gives the installer the option to select either a Self-Test or Manual emergency function while utilising the latest LiFePO4 battery technology.



5 YR
Battery
Warranty

5 YR
Product
Warranty



Where you see this logo, the product benefits from both Self-test and Manual Switching built in. We call it 'Emergency Selectable' or E-SEL3 for short.

LiFePO4

All of your Emergency Products come with lithium iron phosphate (LiFePO4) batteries. Rechargeable battery technology, popular due to its safety, long lifespan, and efficiency.



Want to add E-SEL3 to a product?

Look out for our Plug & Play logo on selected products to add Emergency Manual and Self-test.



Darwell

Emergency Bulkhead



- Switchable emergency - Self-Test / Manual
- Maintained / Non maintained
- Multiple 20mm conduit entry
- Loop in / Loop out terminals

E-SEL3
Selectable emergency now inside!
 At Lumineux, we have combined manual testing with self-testing to provide a versatile and manageable emergency light.

Part No.	Description	Watts	Kelvin	Lumens
430950	Darwell Emergency E-SEL3 Emergency Bulkhead	4W	6500K	250

Emergency: 1.5W @ 160lm



Self adhesive legend kit included

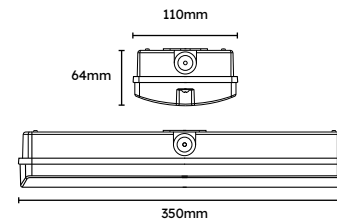
LiFePO4

Emergency Information

Battery Type	LiFePO4
Battery Capacity	1500mAh
Emergency Duration	3 Hours
Emergency Type	Maintained/Non-Maintained

Technical Information

Input	220-240V AC
Operating Temp	0°C - +30°C
Class	2
Connection Type	Push Terminal



Mounting height (M)	Open area (Anti-Panic) area (0.5 lux min)			
	Transverse to wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5m	3.6	9.2	3.6	9.2
4.0m	4.1	10.6	4.1	10.6
6.0m	4.0	11.8	4.0	11.8

Mounting height (M)	Escape route 2 metres wide (1 lux min)			
	Transverse to wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.8	7.2	7.2	2.8	7.2
2.9	8.2	8.2	2.9	8.2
1.1	8.1	8.1	1.1	8.1

Draycote

Emergency Twin Spot



- LiFePO4 battery
- Black/White polycarbonate body
- E-SEL3 Self-Test and Manual Switchable via dip-switch
- 360° Directional Heads
- Non maintained only
- 20mm conduit entry - Side, Base & Rear
- Loop in / Loop out terminals

E-SEL3
Selectable emergency now inside!
 At Lumineux, we have combined manual testing with self-testing to provide a versatile and manageable emergency light.

Part No.	Description	Watts	Kelvin	Lumens
430951-BL	Draycote Twin Spot - Black	4W	6500K	600
430951-WH	Draycote Twin Spot - White	4W	6500K	600

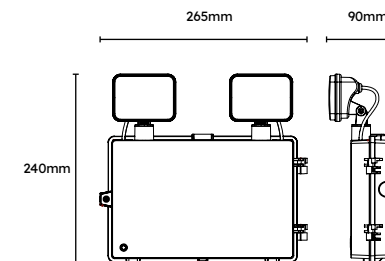
LiFePO4

Emergency Information

Battery Type	LiFePO4
Battery Capacity	7200mAh
Emergency Duration	3 Hours
Emergency Type	Non-Maintained

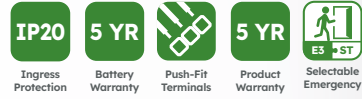
Technical Information

Input	220-240V AC
Operating Temp	0°C - +30°C
Class	2
Connection Type	Push Terminal



Redbrook

Emergency Exit Box



- LiFePO4 battery
- 20mm conduit entry on side, rear & top
- E-SEL3 Manual / Self Test selection inside
- Included in Box 4 legends, up, down, left & right (ISO7010 Legends as Standard)



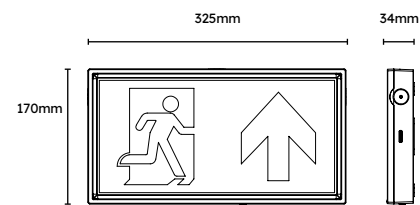
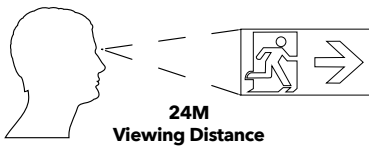
Selectable emergency now inside!
At Lumineux, we have combined manual testing with self-testing to provide a versatile and manageable emergency light.

Part No.	Description	Watts	Kelvin	Lumens
430952-BL	Redbrook Emergency Exit Box - Black	3.5W	6500K	25
430952-WH	Redbrook Emergency Exit Box - White	3.5W	6500K	25

Emergency: 90lm



Task Light
Emergency



LiFePO4

Emergency Information

Battery Type	LiFePO4
Battery Capacity	1600mAh
Emergency Duration	3 Hours
Emergency Type	Maintained

Technical Information

Input	220-240V AC
Operating Temp	0°C - +30°C
Class	2
Connection Type	Push Terminal

Fontburn

Emergency Exit Sign



- LiFePO4 battery
- White/Black polycarbonate body with polycarbonate legends
- Maintained
- E-SEL3 Manual / Self Test selection inside
- Included in Box:
 - Side Mounting Arm
 - Suspension mounting kit
 - Recess mounting kit
 - 3 Legends for changing (UP/LEFT and RIGHT)



Selectable emergency now inside!
At Lumineux, we have combined manual testing with self-testing to provide a versatile and manageable emergency light.


Part No.	Description	Watts	Kelvin	Lumens
430953-BL	Fontburn Emergency Exit Sign - Black	2.5W	6500K	45
430953-WH	Fontburn Emergency Exit Sign - White	2.5W	6500K	45

Emergency: 18lm

Part No.	Description
430944	Down Legend Set
430956	Emergency Sign Track Adaptor




Wall Mounted
(Included)




Flag Mounted
(Included)



Recessed Mounting
(Included)



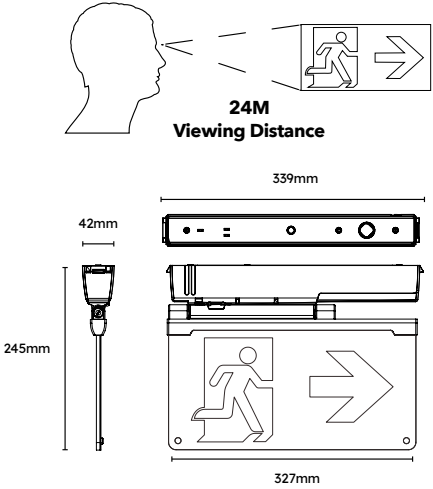
Suspended Mounting
(Included)



Ceiling Mounted
(Included)

Track System Mounted
(Not included)
Part No: 430956

Compatible with Belvide 240V Track system
See Page 94



LiFePO4

Emergency Information	
Battery Type	LiFePO4
Battery Capacity	600mAh
Emergency Duration	3 Hours
Emergency Type	Maintained

Technical Information	
Input	220-240V AC
Operating Temp	0°C - +30°C
Class	2
Connection Type	Screw Terminal

Woodhead

Emergency downlight

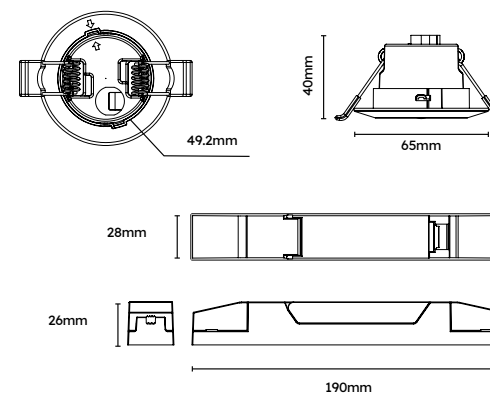


- Black and White Bezel included
- LifePO4 battery
- E-SEL3 Manual / Self Test selection inside
- Non-Maintained
- Recessed installation



Selectable emergency now inside!
At Lumineux, we have combined manual testing with self-testing to provide a versatile and manageable emergency light.

Part No.	Description	Watts	Kelvin	Lumens
430958	Woodhead Emergency Downlight Open Area	1W	6,500K	100
430959	Woodhead Emergency Downlight Corridor	1W	6,500K	100



LiFePO4

Emergency Information	
Battery Type	LiFePO4
Battery Capacity	1600mAh
Emergency Duration	3 Hours
Emergency Type	Non-Maintained

Technical Information	
Input	220-240V AC
Operating Temp	0°C - +30°C
Class	2
Connection Type	Flying Lead

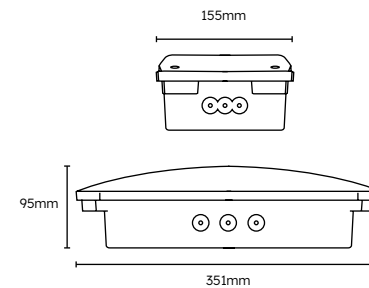
Napton

High Output Emergency



- Suitable for high risk areas
- Polycarbonate body and diffuser
- Multi 20mm conduit entry

Part No.	Description	Watts	Kelvin	Lumens
430702	Napton High Output Emergency	6W	6,500K	910



LiFePO4

Emergency Information

Battery Type	LiFePO4
Battery Capacity	3300mAh
Emergency Duration	3 Hours
Emergency Type	Non-Maintained

Technical Information

Input	220-240V AC
Operating Temp	0°C - +40°C
Class	2
Connection Type	Push Terminal

Grafham Plug & Play High Bay Emergency Pack

IP65
Ingress Protection

5 YR
Battery Warranty

5 YR
Product Warranty

ES + ST
Selectable Emergency



LiFePO4 **E-SEL3**

plug+play
Enabled

Technical Information

Input 220-240V AC
Operating Temp 0°C - +30°C
Battery 3300mAh
60VDC
Connection Type Lever Terminal

Part No. Description

430965 Grafham E-SEL3 High Bay Plug & Play 4W Selectable Emergency

Grafham Plug & Play Linear High Bay Emergency Pack

IP65
Ingress Protection

5 YR
Battery Warranty

5 YR
Product Warranty

ES + ST
Selectable Emergency



LiFePO4 **E-SEL3**

plug+play
Enabled

Technical Information

Input 220-240V AC
Operating Temp 0°C - +30°C
Battery 3300mAh
60VDC
Connection Type Lever Terminal

Part No. Description

430964 Grafham E-SEL3 Linear High Bay Plug & Play 4W Selectable Emergency

Grafham Avon Emergency Conversion Pack

5 YR
Battery Warranty

Push-Fit Terminals

5 YR
Product Warranty

ES + ST
Selectable Emergency



LiFePO4 **E-SEL3**

Technical Information

Input 220-240V AC
Operating Temp 0°C - +30°C
Battery 3200mAh
340VDC
Connection Type Push Terminal

Part No. Description

430967 Grafham ESEL3 Avon 2W Selectable Emergency Conversion Pack

Grafham Plug & Play Bulkhead Emergency Conversion Pack

5 YR
Battery Warranty

140
Lumens

5 YR
Product Warranty

ES + ST
Selectable Emergency



LiFePO4 **E-SEL3**

plug+play
Enabled

Technical Information

Input 220-240V AC
Operating Temp 0°C - +30°C
Battery 2000mAh
3.5VDC
Connection Type Plug Connector

Part No. Description

430963 Grafham E-SEL3 Bulkhead Plug & Play Emergency Conversion Pack

Grafham Plug & Play Linear Emergency Pack

5 YR
Battery Warranty

5 YR
Product Warranty

ES + ST
Selectable Emergency



LiFePO4 **E-SEL3**

plug+play
Enabled

Technical Information

Input 220-240V AC
Operating Temp 0°C - +30°C
Battery 3200mAh
340VDC
Connection Type Plug Connector

Part No. Description

430962 Grafham E-SEL3 Plug & Play Emergency Pack

Grafham Universal E-SEL3 Emergency Pack

5 YR
Battery Warranty

Quick Connector

5 YR
Product Warranty

ES + ST
Selectable Emergency



LOCH4
Quick Connector

LiFePO4 **E-SEL3**

Technical Information

Input 220-240V AC
Operating Temp 0°C - +30°C
Battery 3200mAh
60VDC
Connection Type Quick connector

Part No. Description

430971 Grafham E-SEL3 2W Emergency Pack

Sensors & Drivers

Sensor Range

Crown Standalone PIR Sensor



Technical Information	
Input	220-240V
Operating Temp	-10°C - +40°C
Mounting Height	4M
Class	2
Connection Type	Push Fit

Part No.	Description
440033	Alwen Plug & Play 12V PIR truSmart Sensor

Crown Zhaga Plug & Play truSmart PIR Sensor



Part No.	Description
430625	Alwen Zhaga Plug & Play PIR truSmart Sensor
401754	Remote Control used to reset truSmart

Technical Information	
Input	12V DC
Operating Temp	-10°C - +40°C
Mounting Height	14M Max
Class	3
Connection Type	Zhaga B18 0-10V

Crown Zhaga Plug & Play truSmart Microwave Sensor



Technical Information	
Input	12V DC
Operating Temp	-20°C - +40°C
Mounting Height	15M
Class	3
Connection Type	Zhaga B18 0-10V

Part No.	Description
430821	Alwen Plug & Play 12V PIR Sensor
401754	Remote Control

Alwen Zhaga Plug & Play PIR Sensor



Part No.	Description
430568	Alwen Zhaga Plug & Play PIR Sensor
401754	Remote Control

Technical Information	
Input	12V DC
Operating Temp	-10°C - +40°C
Mounting Height	12M Max
Class	3
Connection Type	Zhaga B18 0-10V

Alwen PIR Batten Mount Sensor



Technical Information	
Input	220-240V AC
Operating Temp	-10°C - +35°C
Mounting Height	7M Max
Class	2
Connection Type	Flying Lead

Part No.	Description
401752	Batten Mount PIR Sensor
401755	Remote Control

Alwen Zhaga Plug & Play Microwave Sensor



Part No.	Description
430569	Alwen Zhaga Plug & Play Microwave Sensor
401754	Remote Control

Technical Information	
Input	12V DC
Operating Temp	-20°C - +40°C
Mounting Height	15M
Class	2
Connection Type	Zhaga B18 0-10V

Sensors & Drivers

Sensor Range

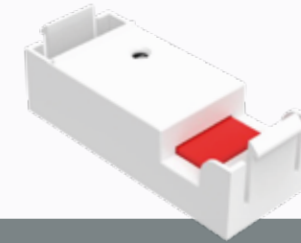
Melbury Plus Plug & Play DD Sensor



Technical Information	
Input	5V DC
Operating Temp	-10°C - +30°C
Dusk to Dawn	On 20 / 100 Off
Class	3
Connection Type	3 PIN

Part No.	Description
431382	Melbury Plus DD Plug & Play Sensor

Alwen Plug & Play Bulkhead Microwave/Step Dim Sensor



Technical Information	
Input	12V DC
Operating Temp	-20°C - +40°C
Mounting Height	6M
Class	3
Connection Type	Quick Connector

Part No.	Description
431127	Microwave/Step Dim Plug & Play Sensor

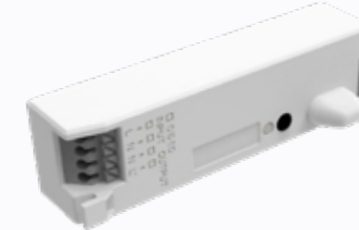
Melbury Plus Plug & Play PIR Sensor



Technical Information	
Input	5V DC
Operating Temp	-10°C - +30°C
Mounting Height	3M Max
Detection Zone	2.5M-8M
Class	3
Connection Type	3 PIN

Part No.	Description
431383	Melbury Plus PIR Plug & Play Sensor

Alwen Plug & Play Linear Microwave sensor



Technical Information	
Input	220-240V AC
Operating Temp	-20°C - +40°C
Mounting Height	6M
Class	1
Connection Type	Quick Connector

Part No.	Description
430916	Alwen Linear Microwave Plug & Play Sensor

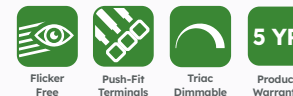
Multi Dimmable Drivers



Technical Information	
Input	220-240V AC
Operating Temp	-10°C - +40°C
Cable Length	N/A
Class	2
Connection Type	Push Terminal

Part No.	Description
410072	Multi Dimmable Driver 10W - 30W
410226	Helvar DALI2 8W - 24W 170 - 700mA 9 - 52V DC
430268	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 8W - 22W 200-550mA 30-40VDC
430269	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 24W - 42W 600-1050mA 30-40VDC
430270	Multi Dimmable Driver (Push Dim, 0-10v & DALI2) 42W-60W 1050-1500mA 30-40VDC

Triac Dimmable Drivers



Technical Information	
Input	220-240V AC
Operating Temp	-10°C - +40°C
Cable Length	N/A
Class	2
Connection Type	Push Terminal

Part No.	Description
430265	Triac Dimmable Driver 10W - 24W
430266	Triac Dimmable Driver 18W - 32W
430267	Triac Dimmable Driver 28W - 42W



Lumineux sports



238

Wilton



242

Harlock



244

Belmont



248

Arnfield



250

Wimbleball



252

Carsington Plus



254

Avern



256

Brayside

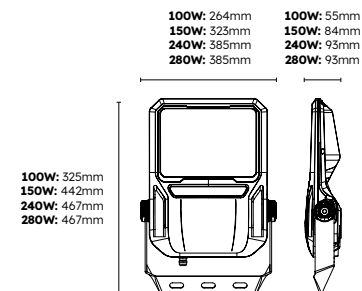


IP67	IK09	60,000	5 YR
Ingress Protection	Impact Rating	LED Lifespan L70	Product Warranty

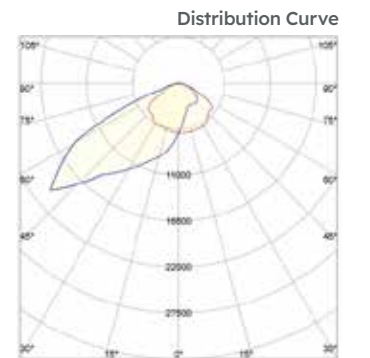


- High quality LED chips and driver
- Asymmetric optics
- Suitable for swimming pools and coastal areas
- 304 stainless steel bracket powder coated
- Easy installation
- High efficiency up to 140 lm/W
- IP67 and tough IK09 rated construction

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430711	Wilton Floodlight 40° x 130° - Grey	100W	5000K	14,000	140
430712	Wilton Floodlight 40° x 130° - Grey	150W	5000K	21,000	140
430714	Wilton Floodlight 40° x 130° - Grey	200W	5000K	28,000	140
430715	Wilton Floodlight 40° x 130° - Grey	240W	5000K	33,600	140
430716	Wilton Floodlight 40° x 130° - Grey	280W	5000K	39,200	140



Technical Information	
Input	100-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	1.5M Lead





Jason Kenny Centre

A premium leisure facility in Bolton upgraded its swimming pool lighting with the Lumineux Wilton Sports Floodlight. This solution delivers competition-

standard lux levels and uniformity, enhancing visibility and ambiance throughout the pool and viewing areas by effectively up-lighting the ceiling.

“...enhancing visibility and ambiance throughout the pool and viewing areas...”

Harlock

Wattage Selectable: 200W/300W/400W, 400W/500W/600W & 600W/700W/800W
 3CCT Selectable: 3000K/4000K/5000K

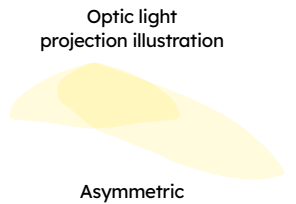


- 10kVA L/N-PE surge protection
- High efficiency 150 lm/W Asymmetric Optic, 170 lm/W Symmetric Optic
- IP66 and tough IK08 rated construction
- 3000K & 5000K available on request



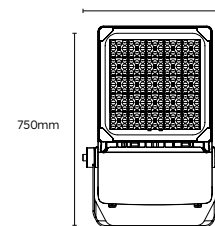
Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431256	Harlock Court Lighting Asymmetric - Grey	200W/300W/400W	4000K	30,000/45,000/60,000	150
431259	Harlock Court Lighting Asymmetric - Grey	400W/500W/600W	4000K	60,000/75,000/90,000	150
431262	Harlock Court Lighting Asymmetric - Grey	600W/700W/800W	4000K	90,000/105,000/120,000	150
431264	Harlock Court Lighting Symmetric - Grey	200W/300W/400W	3CCT	34,000/51,000/68,000	170
431265	Harlock Court Lighting Symmetric - Grey	400W/500W/600W	3CCT	68,000/85,000/102,000	170
431266	Harlock Court Lighting Symmetric - Grey	600W/700W/800W	3CCT	102,000/119,000/136,000	170

Option No.	Description
431267	Harlock Court Light 200W/300W/400W Anti Glare Shield
431268	Harlock Court Light 400W/500W/600W Anti Glare Shield
431269	Harlock Court Light 600W/700W/800W Anti Glare Shield



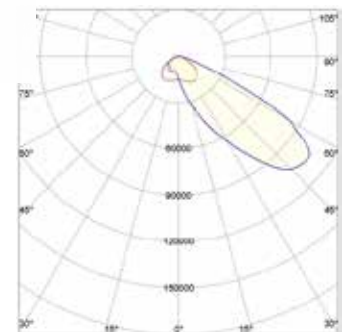
200W/300W/400W: 400mm
 400W/500W/600W: 500mm
 600W/700W/800W: 635mm

200W/300W/400W: 80mm
 400W/500W/600W: 80mm
 600W/700W/800W: 85mm



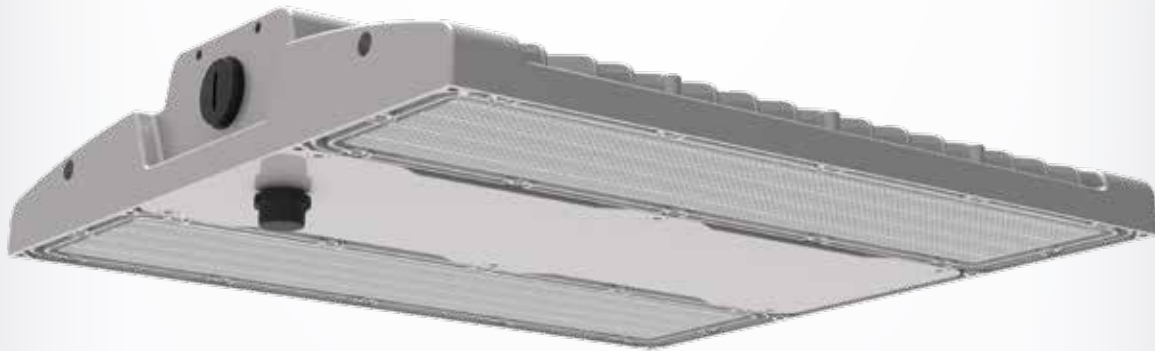
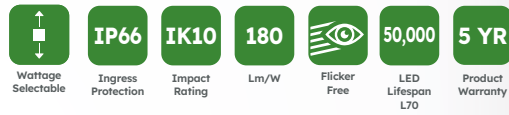
Technical Information	
Input	220-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	1.5M Flying Lead

Asymmetric Distribution Curve



Belmont

Wattage Selectable: 100W/120W/150W (selected models)
Linear High Bay - Zhaga Plug & Play



- Fresnel optics for improved glare control
- Tough, impact resistant IK10 housing
- Plug & Play Options:
 - Grafham High Output Emergency Pack
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Alwen Zhaga truSmart PIR sensor

THINK! LUMENS NOT WATTS

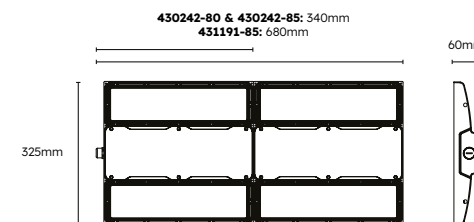
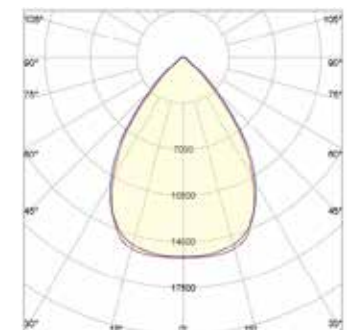


Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430242-80	Belmont Linear High Bay 25° x 80° Optic - Grey	180W	5000K	27,925	155
430242-85	Belmont Linear High Bay 85° Optic - Grey	180W	5000K	28,000	155
431191-85	Belmont Linear High Bay 85° Optic - Grey	100W/120W/150W	5000K	18,000/21,600/27,000	180

Option No.	Description	Lumens
430964	Grafham Linear High Bay ESEL3 Emergency	700
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	
430243	Belmont 60° Rotatable Bracket (pair)	

Technical Information	
Input	220-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	1.5M Flying Lead

Distribution Curve





Philips High School

The sports hall at Philips High School has been transformed with the introduction of the 120W Belmont Linear High Bay. Its

tough and durable, impact resistant housing is perfect for the environment, whilst having a flicker-free driver with an IK10 impact rating.

“Its tough and durable, impact resistant housing is perfect for the environment”



Arnfield

Linear Court Lighting

Project order only

Please call for more information on the Arnfield and how Lumineux can offer a customisable option to ensure the right lighting solution.

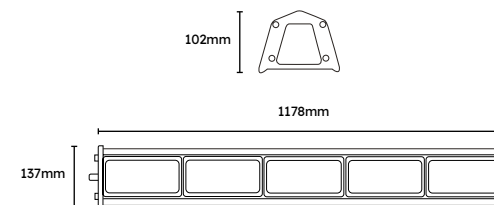
-  **Technical Support**
-  **IP65**
Ingress Protection
-  **IK10**
Impact Rating
-  **65,000**
LED Lifespan L70
-  **5 YR**
Product Warranty



- Designed to meet LTA Standards
- Bespoke court lighting optics
- Supplied with 1.5M prewired H05RN-F cable
- IK10 rating
- Option of lumens maintenance



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
Custom	Arnfield Linear Court Light - Black	120W	5000K	19,800	165
Custom	Arnfield Linear Court Light - Black	150W	5000K	24,750	165



Technical Information	
Input	220-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	1.5M Flying Lead

Wimbleball

Wattage Selectable: 190W/250W/320W (selected models)
Linear Court Lighting

- 
Wattage Selectable
- 
IP66
Ingress Protection
- 
IK10
Impact Rating
- 
165
Lm/W
- 
Visual Comfort
- 
5 YR
Product Warranty



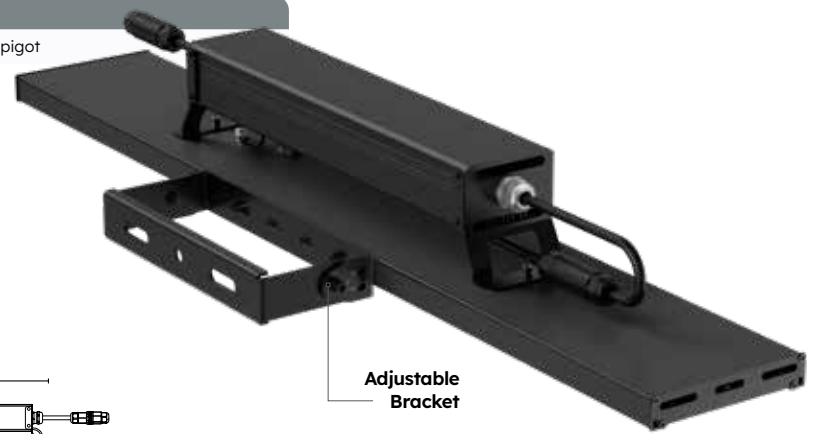
Wimbleball Pole Mounting
Part No: 431244



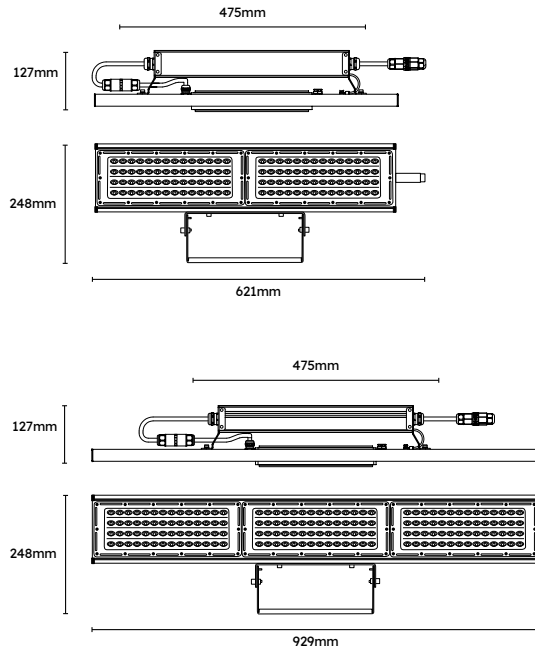
- C5 corrosion resistance
- Designed to meet LTA padel court standards
- Bespoke court lighting optics
- IK10 rating
- 120° polarised 38° optics

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431240	Wimbleball Linear Court Light - Black	200W	4000K	33,000	165
431241	Wimbleball Linear Court Light - Black	190W/250W/320W	4000K	31,350/41,250/52,800	165

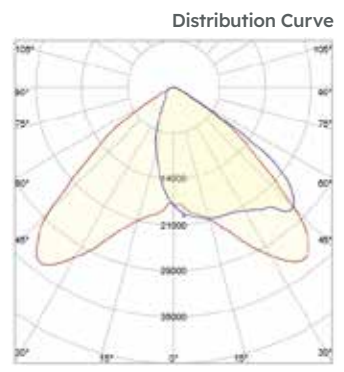
Option No.	Description
431244	Pole Mounting 60mm Spigot
430902	DALI Inline Converter



Adjustable Bracket



Technical Information	
Input	220-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	Inline Connector



Carsington Plus

Premium Sports Floodlight

Ultra-high efficiency light designed to maximise sports ground lighting.



- Massive light output of up to 183,600lm
- Ultra-high system efficiency over 140 lm/W
- High quality Lumileds LED chip and Inventronics driver
- Control gear has IP68 Plug & Play connectors
- Professionally designed true asymmetric flat optics
- High quality AkzoNobel anti-corrosion powder coating
- DALI Driver



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430510-25-415	Carsington Plus - Black	600W	5000K	81,000	135
430511-25-415	Carsington Plus - Black	960W	5000K	129,600	135
430512-25-415	Carsington Plus - Black	1360W	5000K	183,600	135

Option No.	Description
430532	Front Spill Guard 600W
430518	Back Spill Guard 960W
430559	Back Spill Guard 1360W

Control Gear Mounting Options

Depending on the size of installation, we would recommend installing the cabinet option as this offers the greatest flexibility in terms of installation of the Control Gear and ease of maintenance.



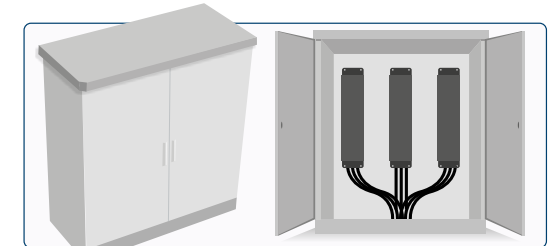
Mounted on Brackets
Control Gear mounted on the bracket is ideal when there is a small installation.



Outside Pole Mounted
The Control Gear can also be installed either within the pole (where available) or on the outside as shown.



Inside Pole Mounted

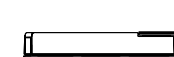


Mounted within a Static Cabinet
Perfect for large installations. We would recommend this option as it provides very good installation and maintenance all in one cabinet.

600W: 325mm
960W: 500mm
1,360W: 500mm

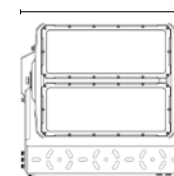


600W: 144mm
960W: 150mm
1,360W: 150mm



600W: 58mm
960W: 81mm
1,360W: 81mm

600W: 689mm
960W: 660mm
1,360W: 660mm



600W: 224mm
960W: 137mm
1,360W: 137mm



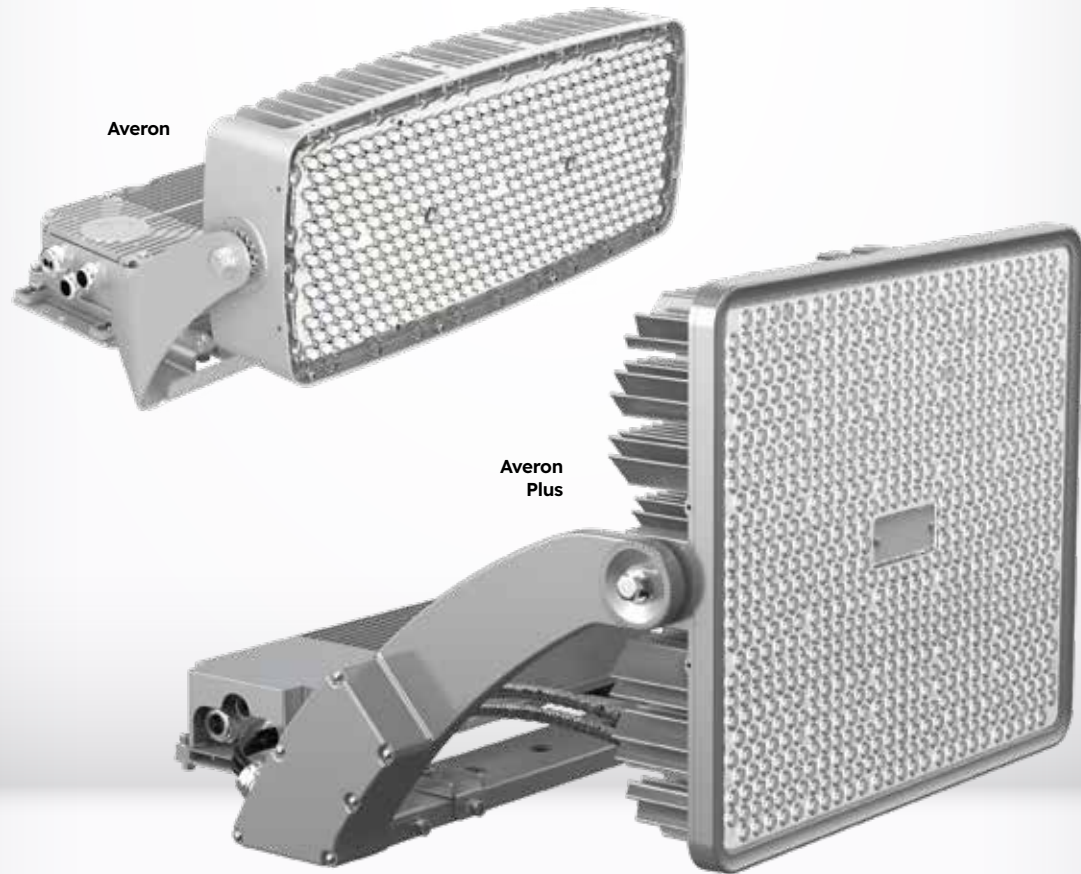
600W: 469mm
960W: 737mm
1,360W: 737mm

Technical Information

Input	220 - 415V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	1.5M Flying Lead

Averon & Averon Plus

High-Power Lightweight Sports Lighting



- 3000K & 4000K available on request
- 10KV surge protection
- High thermalconductive aluminium alloy
- IP66 ingress protection
- 1,000 hours salt spray tested



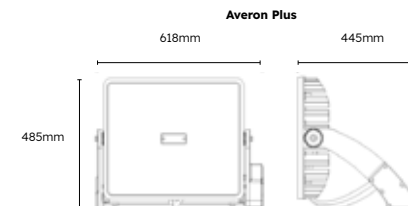
Averon

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431203	Averon High-Power Sports Light	700W/800W/900W	4000K	94,500/108,000/121,500	135

Averon Plus

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431211	Averon Plus High-Power Sports Light	1200W	4000K	162,000	135
431210	Averon Plus High-Power Sports Light	1650W	4000K	222,750	135

Option No.	Description
431226	Anti-Glare Shield
431225	Fixed Visor
431209	Adjustable Visor
-17	17° Optic
-24	24° Optic
-NBP	Asymmetric Optic



Technical Information	
Input	220-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	Push Terminals

Brayside

RGBW 4000K
High-Power Lightweight Sports Lighting

NEW



IP66	IK08	100,000	7 YR
Ingress Protection	Impact Rating	LED Lifespan L70	Product Warranty

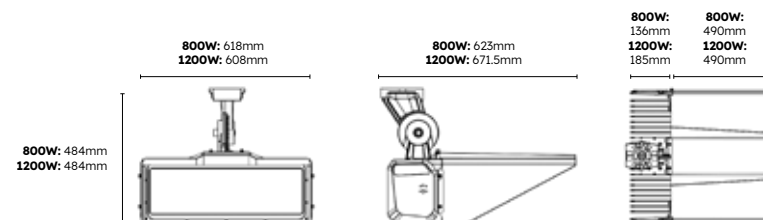
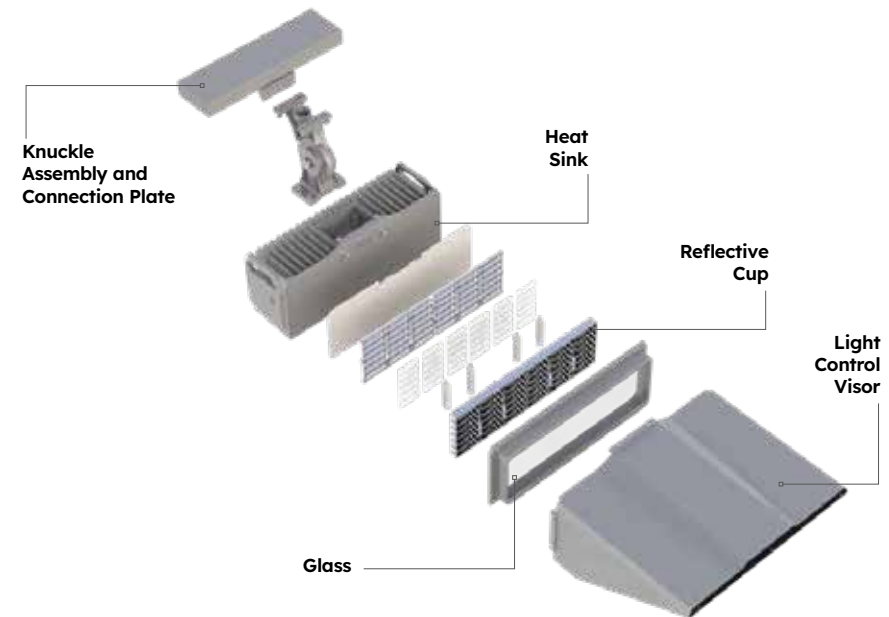
Project order only

Please call for more information on the Brayside and how Lumineux can offer a customisable option to ensure the right lighting solution.



- Suitable for outdoor professional sports and entertainment venues
- Beam angles: 15°/20°/25°/40°
- RGBW

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
Custom	Brayside - RGBW Sports Light	800W	RGBW 4000K	104,000	130
Custom	Brayside - RGBW Sports Light	1000W	RGBW 4000K	130,000	130
Custom	Brayside - RGBW Sports Light	1200W	RGBW 4000K	180,000	130



Technical Information	
Input	220-415V AC
Operating Temp	-30°C - +50°C
Class	1
Driver	DMX

Columns

Fully customisable mounting options, designed for your individual project.

Available with customised columns, brackets and finishes to maximise the impact of your lighting whilst minimising the impact on the environment it illuminates.



Sports Lighting

Columns are the perfect way to mount your sports lighting enabling you to control the projection and spill of light.



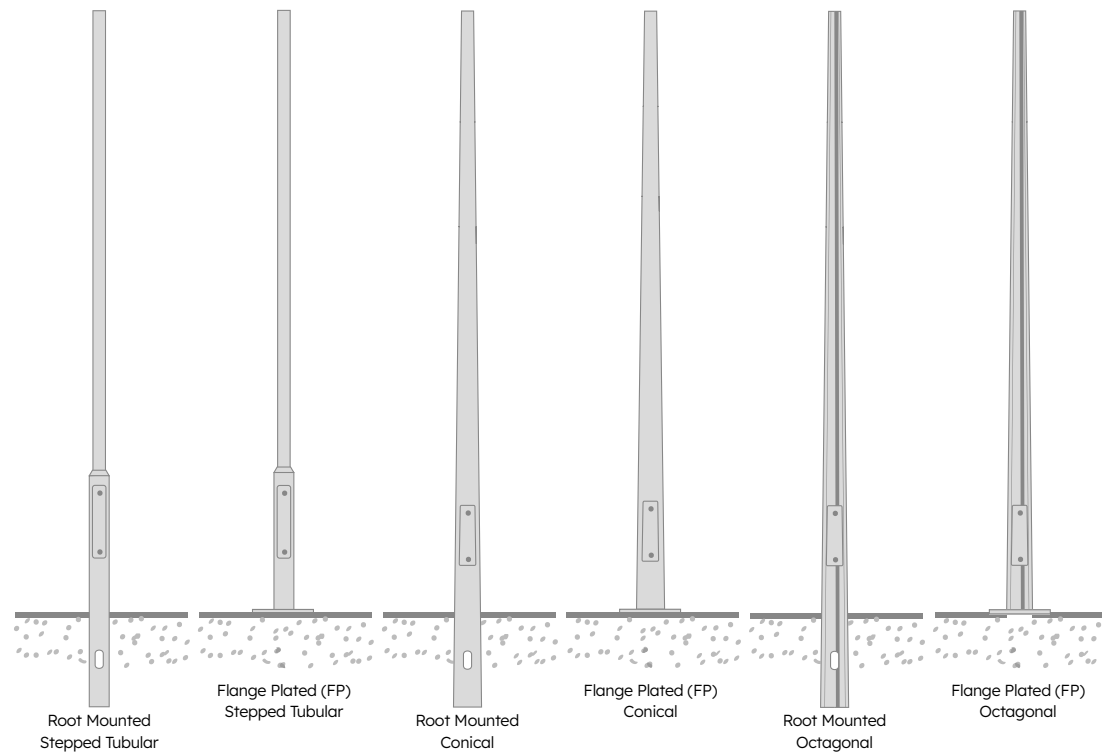
Car Parking

Columns enable you to light car parks of all sizes providing a strong and safe mounting solution.



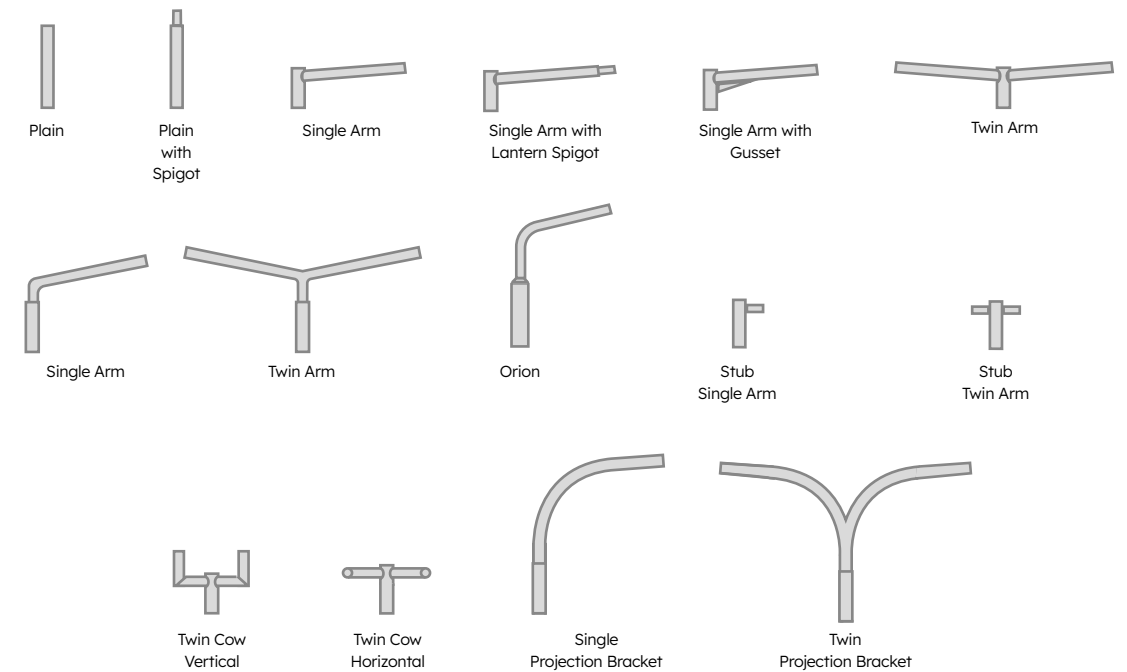
Street Lighting

Tapered finishes enable columns to blend into their surroundings. Columns can also be designed to suit the environment, including decorative customisation.



Brackets

Brackets can be designed and tailored to individual project requirements.



Case Study



Indoor Tennis Courts

David Lloyd Leisure in Southampton is one of a number of David Lloyd facilities where Lumineux products have been installed. The Southampton Club were looking to improve the

lighting in their indoor tennis courts, without increasing their energy costs. Working alongside our Lighting Design team, a solution was created to replace their existing lighting for an

LED alternative. Throughout the courts, 264 Arnfields were installed, leading to noticeably improved lighting on the courts and a dramatic saving in running and maintenance costs.

“The estimated saving was calculated at £136,235 over 5 years”

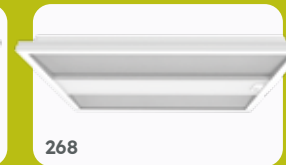
David Lloyd
CLUBS





264

Snowdon



268

Blackburn



270

Sierra



272

Clifton



274

truSmart Compatible



288

Gateways, Drivers & Sensors

truSmart Snowdon

600 x 600 Backlit Smart Panel



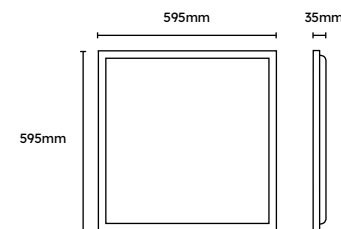
UGR <19



- Built in PIR/Daylight Sensor
- Optic lens for even light distribution
- Control/Group via the truSmart App
- Flicker free driver
- Wireless control
- UGR <19
- Microprismatic TP (a) diffuser

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
440100	truSmart Snowdon Backlit Smart Panel 600 x 600 TP (a) - White	24W	4000K	3,600	150
440101	truSmart Snowdon Backlit Smart Panel (Tunable) 600 x 600 TP (a) - White	24W	3000K-6000K	3,600	150

Option No.	Description
430147	Ceiling Pattress Kit
440028	truSmart E-SEL3 Emergency Pack Single Colour
440029	truSmart E-SEL3 Emergency Pack Tunable Colour



Technical Information	
Input	220-240V AC
Operating Temp	0°C - +40°C
Class	2
Connection Type	Quick Connector on driver



Insurance Offices

An insurance company upgraded the lighting throughout their entire Head Office to energy-efficient LED solutions using Lumineux's Wraysbury Panels with integrated emergency lighting (EM). This

comprehensive installation not only enhances workplace illumination but also ensures compliance with emergency lighting standards, delivering a brighter, safer, and more sustainable office environment.

"...delivering a brighter, safer, and more sustainable office environment."



truSmart Blackburn

600 x 600 Indirect Smart Panel



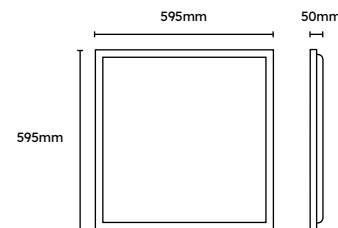
UGR <19



- Built in PIR/Daylight Sensor
- Optic lens for even light distribution
- Control/Group via the truSmart App
- Flicker free driver
- Wireless control
- Microprismatic TP (a) diffuser to achieve UGR <19

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
440102	truSmart Blackburn Indirect Smart Panel (tunable) 600 x 600 TP (a) - White	30W	3000K-6000K	3,900	130

Option No.	Description
440029	truSmart E-SEL3 Emergency Pack Single Tunable Colour



Technical Information	
Input	220-240V AC
Operating Temp	0°C - +40°C
Class	2
Connection Type	Quick Connector on driver

truSmart Sierra

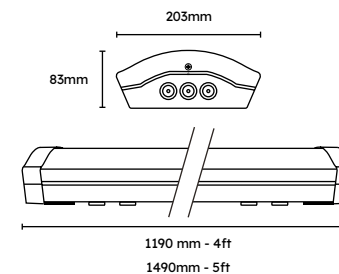
Academic Smart Batten Twin



- Built in PIR/Daylight Sensor
- Opal ribbed polycarbonate diffuser to reduce glare
- Multi 20mm conduit entry
- Control/Group via the truSmart App
- Self-test emergency available

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
440012	truSmart Sierra Academic Batten 4ft Twin - White	40W	4000K	5,000	125
440013	truSmart Sierra Academic Batten 5ft Twin - White	58W	4000K	7,250	125

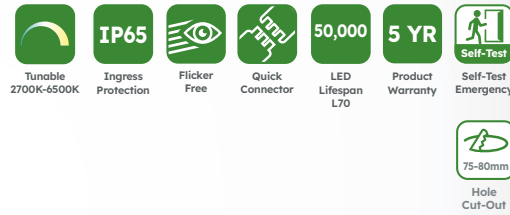
Option No.	Description
-E3	E-SEL3 Emergency



Technical Information	
Input	220-240V AC
Operating Temp	0°C - +45°C
Class	1
Connection Type	Push Terminal

truSmart Clifton

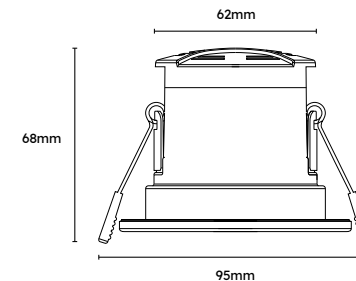
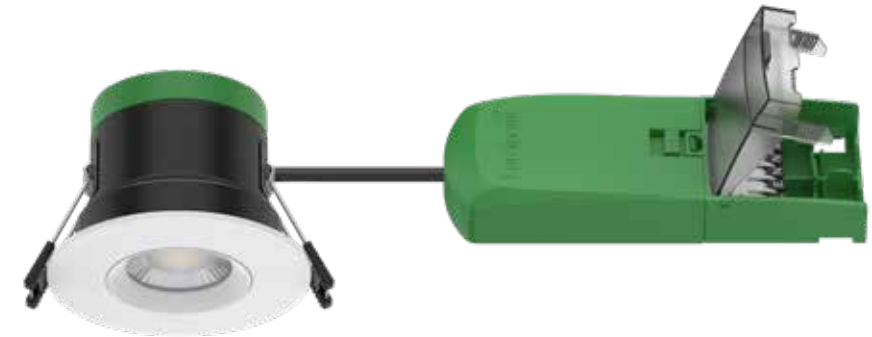
Fire Rated Commercial Downlight



- Complies with parts B, C, E and L of Building Regulations
- Suitable for solid or stranded cable Ø 0.75 – 2.5mm2
- Replacable light source
- Suitable for Care homes, Hotels & Corridors
- Fully tested for 30, 60 and 90 minutes fire rated
- Meets STA Pattern Book fire test requirements
- Quick connector with LENNEL lever terminal
- High efficiency 150 lm/W
- Dimmable via truSmart app



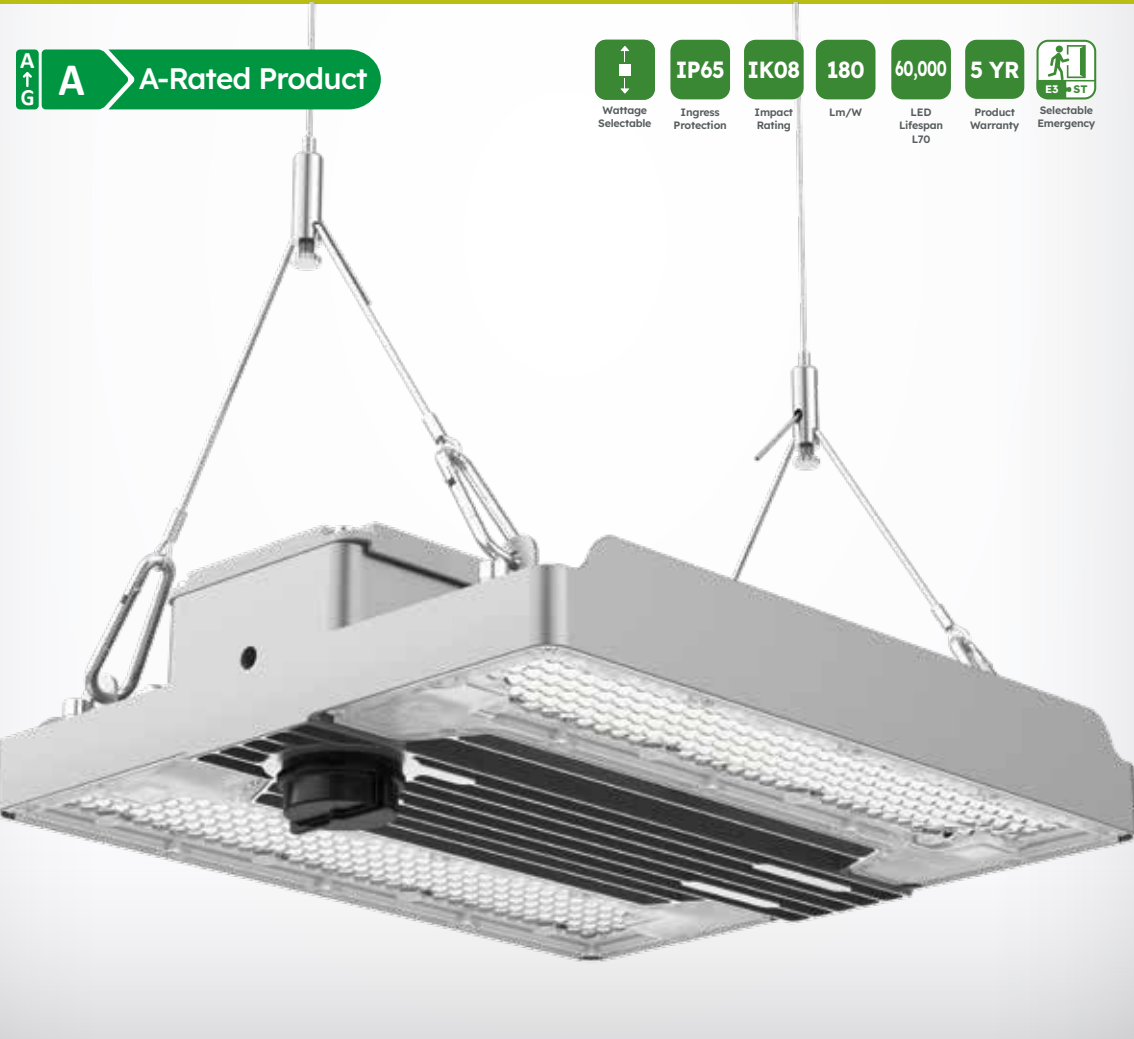
Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430882	truSmart Clifton Fire Rated Commercial Downlight White	8.5W	2700K-6500K	1,275	150
430885	truSmart Clifton Fire Rated Commercial Downlight Black	8.5W	2700K-6500K	1,275	150





Technical Information	
Input	220-240V AC
Operating Temp	-10°C - +45°C
Class	2
Connection Type	Lever Terminal

truSmart Derwent

Wattage selectable: 75W/95W/118W
Mid Bay



A **A-Rated Product**

- 
Wattage Selectable
- 
IP65
Ingress Protection
- 
IK08
Impact Rating
- 
180
Lm/W
- 
60,000
LED Lifespan L70
- 
5 YR
Product Warranty
- 
Selectable Emergency

- Wattage selectable (3 options)
- **Highly efficient - 180 lm/W**
- Suspension kit included
- Sleek, compact design
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor

THINK! LUMENS NOT WATTS

truSmart intelligent controls
Compatible

plug+play Enabled

E-SEL3
Linear High Bay
Emergency
Part No. 430964

Alwen Zhaga PIR
Part No. 430568

Alwen Zhaga Microwave
Part No. 430569

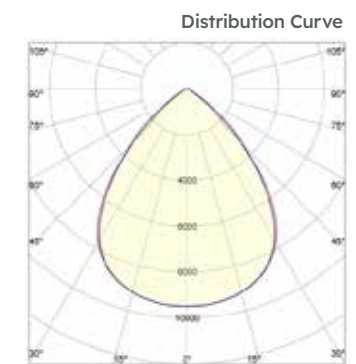
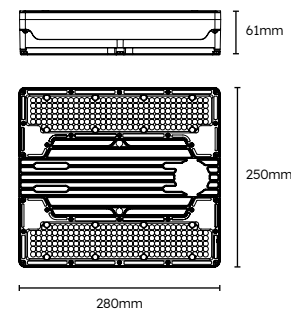
Crown Zhaga truSmart PIR
Part No. 430625

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431175-85	Derwent Mid Bay - Grey Plug & Play	75W/95W/118W	5000K	13,500/17,100/21,250	180

Option No.	Description	Lumens
430964	Grafham Linear High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	
431176	Fixed Bracket	
431174	Emergency Pack Mounting Bracket	

Technical Information	
Input	100-240V AC
Operating Temp	-30°C - +50°C*
Class	1
Connection Type	Flying Lead

*Emergency Temp: 0°C - 30°C



truSmart Meadley

Wattage selectable: 75W/95W/118W
High Bay - Zhaga Plug & Play



- Wattage Selectable
- IP65
Ingress Protection
- IK08
Ingress Protection
- 155
Lm/W
- 60,000
LED Lifespan L70
- 5 YR
Product Warranty
- Selectable Emergency



- Wattage Selectable
- Supplied with 1.5M prewired H05RN-F cable
- 90° or 120° optic options
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor



THINK! LUMENS NOT WATTS



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Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431178-120	Meadley High Bay 120° - Black Plug & Play	50W/70W/100W	5000K	7,750/10,850/15,500	155
431179-120	Meadley High Bay 120° - Black Plug & Play	85W/115W/150W	5000K	13,175/17,825/23,250	155
431180-120	Meadley High Bay 120° - Black Plug & Play	115W/155W/200W	5000K	17,825/24,025/31,000	155
431178-90	Meadley High Bay 90° - Black Plug & Play	50W/70W/100W	5000K	7,750/10,850/15,500	155
431179-90	Meadley High Bay 90° - Black Plug & Play	85W/115W/150W	5000K	13,175/17,825/23,250	155
431180-90	Meadley High Bay 90° - Black Plug & Play	115W/155W/200W	5000K	17,825/24,025/31,000	155

Option No.	Description	Lumens
430965	Grafham High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	

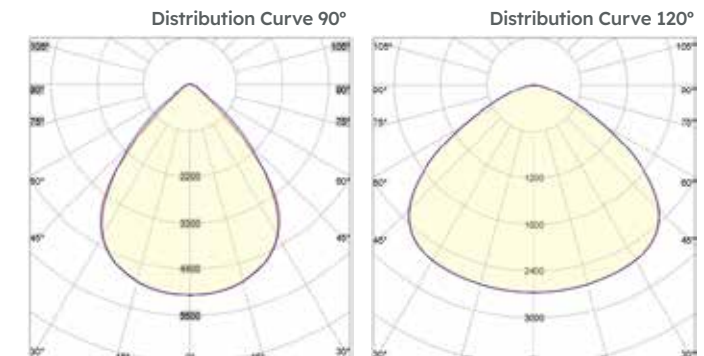
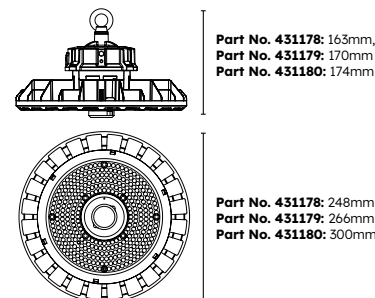
Brackets and Mounting options	
430519	Meadley High Bay Fixed Bracket
431173	Adjustable Bracket
401063	Polycarbonate Diffuser (200W only)



Technical Information

Input	100-240V AC
Operating Temp	-30°C - +50°C*
Class	1
Connection Type	Flying Lead

*Emergency Temp: 0°C - 30°C



truSmart Foremark

High Bay - Zhaga Plug & Play



- IP65**
Ingress Protection
- IK08**
Ingress Protection
- 145**
Lm/W
- 60,000**
LED Lifespan L70
- 5 YR**
Product Warranty
-



- Supplied with 1.5M prewired H05RN-F cable
- Sosen LED Driver
- 90° or 120° optic options
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430733-90	Foremark 90° Optic Zhaga - Black Plug & Play	100W	5000K	14,500	145
430734-90	Foremark 90° Optic Zhaga - Black Plug & Play	150W	5000K	21,750	145
430735-90	Foremark 90° Optic Zhaga - Black Plug & Play	200W	5000K	29,000	145
430733-120	Foremark 120° Optic Zhaga - Black Plug & Play	100W	5000K	14,500	145
430734-120	Foremark 120° Optic Zhaga - Black Plug & Play	150W	5000K	21,750	145
430735-120	Foremark 120° Optic Zhaga - Black Plug & Play	200W	5000K	29,000	145

Option No.	Description	Lumens
430965-R2	Grafham High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	

Brackets and Mounting options	
430341	Foremark Adjustable Bracket (3 Part)
431173	Adjustable Bracket

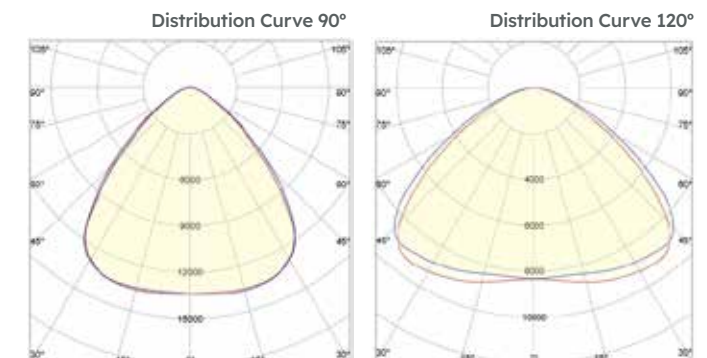
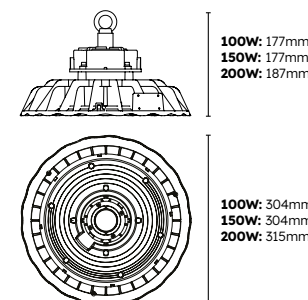


Foremark Adjustable Bracket (3 Part)
Part No: 430341

Technical Information

Input	120-240V AC
Operating Temp	-30°C - +50°C*
Class	1
Connection Type	Flying Lead

*Emergency Temp: 0°C - 30°C



truSmart Foremark Plus

High Bay - Zhaga Plug & Play

A A-Rated Product

IP65 Ingress Protection
IK08 Ingress Protection
205 Lm/W
60,000 LED Lifespan L70
5 YR Product Warranty
 Selectable Emergency

THINK! LUMENS NOT WATTS

Available with DALI

truSmart intelligent controls
Compatible



plug+play Enabled

E-SEL3
High Bay Emergency
Part No. 430965-R2

Alwen Zhaga PIR
Part No. 430568

Alwen Zhaga Microwave
Part No. 430569

Crown Zhaga truSmart PIR
Part No. 430625

Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430642-90	Foremark Plus 90° Optic Zhaga - Black Plug & Play	75W	5000K	15,375	205
430643-90	Foremark Plus 90° Optic Zhaga - Black Plug & Play	110W	5000K	22,550	205
430644-90	Foremark Plus 90° Optic Zhaga - Black Plug & Play	150W	5000K	30,750	205
430642-120	Foremark Plus 120° Optic Zhaga - Black Plug & Play	75W	5000K	15,375	205
430643-120	Foremark Plus 120° Optic Zhaga - Black Plug & Play	110W	5000K	22,550	205
430644-120	Foremark Plus 120° Optic Zhaga - Black Plug & Play	150W	5000K	30,750	205

Option No.	Description	Lumens
430965-R2	Grafham High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	



Foremark Adjustable Bracket (3 Part)
Part No: 430341

Brackets and Mounting options

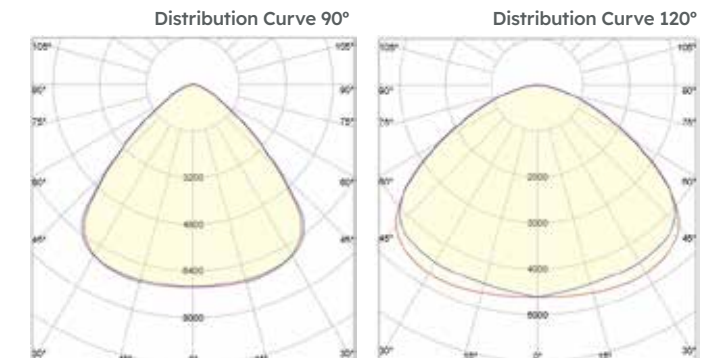
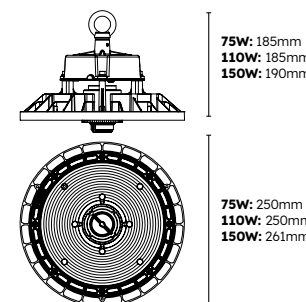
430341	Foremark Adjustable Bracket (3 Part)
431173	Universal High Bay Rotatable Bracket

Technical Information

Input	120-240V AC
Operating Temp	-30°C - +50°C*
Class	1
Connection Type	Flying Lead

*Emergency Temp: 0°C - 30°C

- Supplied with 1.5M prewired H05RN-F cable
- **'A' rated product that delivers over 205 lm/W**
- 90° or 120° optic options
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor



truSmart Lockwood UGR

High Bay - Zhaga Plug & Play



IP65 Ingress Protection	IK09 Impact Rating	85° Beam Angle	160 Lm/W	50,000 LED Lifespan L70	5 YR Product Warranty
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Project order only

Please call for more information on the Lockwood and how Lumineux can offer a customisable option to ensure the right lighting solution.



- Clean slim design
- Supplied with 1.5M prewired cable
- Low UGR optic lens
- Unique hollow design for superior thermals

THINK! **LUMENS**
NOT WATTS

DALI
Available with DALI

truSmart
intelligent controls
Compatible

plug+play
Enabled



Alwen Zhaga PIR
Part No. 430568



Alwen Zhaga Microwave
Part No. 430569



Crown Zhaga truSmart PIR
Part No. 430625

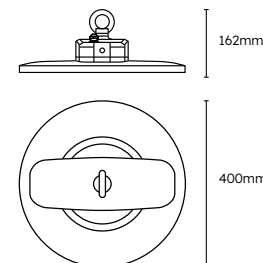
Part No.	Description	Watts	Kelvin	Lumens	Lm/W
Custom	Lockwood High Bay - Black	100W	5000K	16,000	160
Custom	Lockwood High Bay - Black	150W	5000K	24,000	160
Custom	Lockwood High Bay - Black	200W	5000K	32,000	160

Option No.	0-10V Plug & Play Options	Lumens
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	

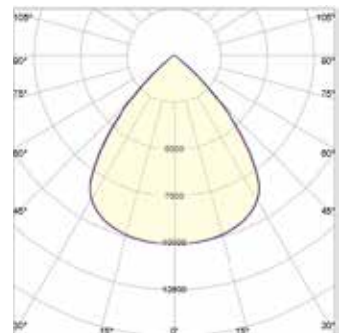
Option No.	DALI2 D4i Plug & Play Options
421127	Alwen High Bay Lens - TYPE H 18M
420798	Alwen High Bay Aisle Lens - TYPE G 15M
430487	Alwen Zhaga Plug & Play DALI Mesh
421125	Remote Control
430486	Alwen Zhaga Plug & Play 0-10V Mesh

Technical Information

Input	100-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	Flying Lead



Distribution Curve

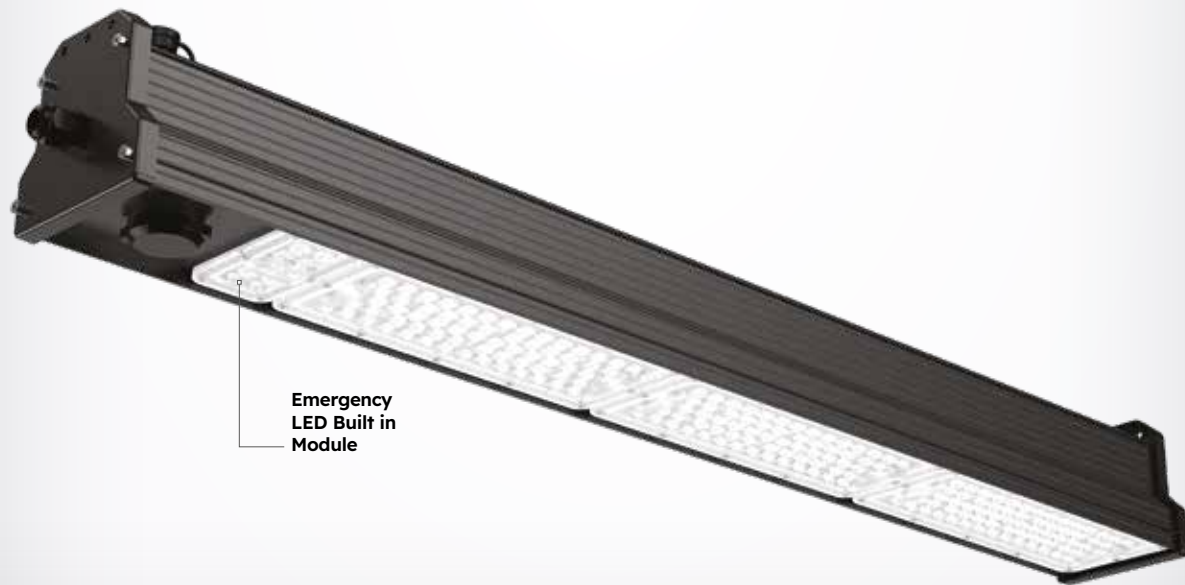


truSmart Netherton

Linear High Bay - Zhaga Plug & Play

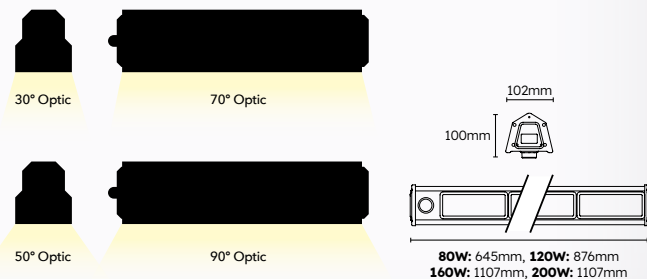


- IP65**
Ingress Protection
- 170**
Lm/W
- IK08**
Impact Rating
- 50,000**
LED Lifespan L70
- 5 YR**
Product Warranty
-



Emergency LED Built in Module

- Lightweight design
- Optics ideal for racked aisle
- Supplied with 1.5m suspension kit
- Plug & Play Options:
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Crown Zhaga truSmart PIR sensor



THINK! LUMENS NOT WATTS



Part No.	Description	Watts	Kelvin	Lumens	Lm/W
431181-70	Netherton Linear High Bay 30°x70° - Black Plug & Play	80W	5000K	13,600	170
431181-90	Netherton Linear High Bay 50°x90° - Black Plug & Play	80W	5000K	13,600	170
431182-70	Netherton Linear High Bay 30°x70° - Black Plug & Play	120W	5000K	20,400	170
431182-90	Netherton Linear High Bay 50°x90° - Black Plug & Play	120W	5000K	20,400	170
431183-70	Netherton Linear High Bay 30°x70° - Black Plug & Play	160W	5000K	27,200	170
431183-90	Netherton Linear High Bay 50°x90° - Black Plug & Play	160W	5000K	27,200	170
431184-70	Netherton Linear High Bay 30°x70° - Black Plug & Play	200W	5000K	34,000	170
431184-90	Netherton Linear High Bay 50°x90° - Black Plug & Play	200W	5000K	34,000	170

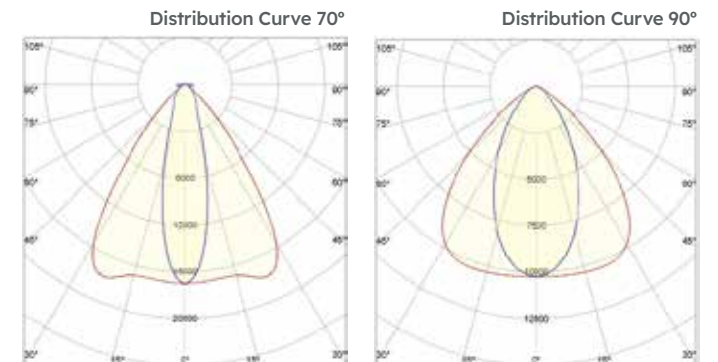
Option No.	Description	Lumens
430964	Grafham Linear High Bay E-SEL3 Selectable Emergency	650
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	

Brackets and Mounting options	
431198	Adjustable Bracket
421363	Emergency Bracket Pair

Technical Information

Input	100-240V AC
Operating Temp	-30°C - +40°C*
Class	1
Connection Type	Flying Lead

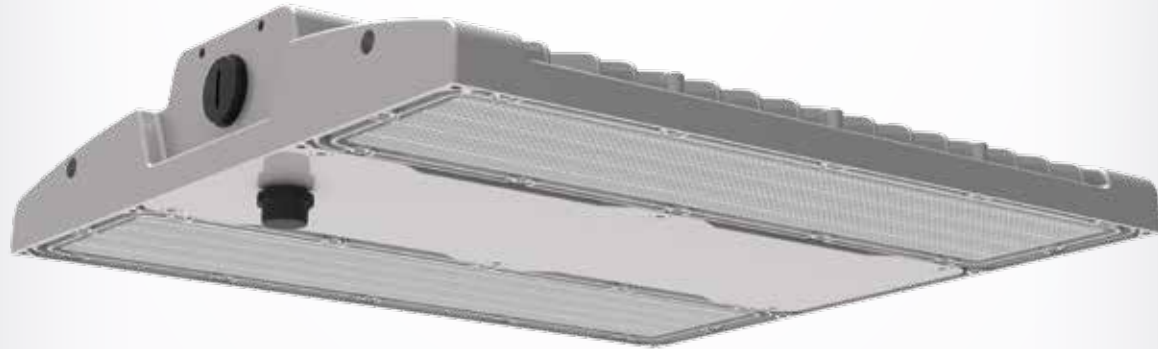
*Emergency Temp: 0°C - 30°C



truSmart Belmont

Linear High Bay - Zhaga Plug & Play

IP65 Ingress Protection	IK10 Impact Rating	180 Lm/W	Flicker Free	50,000 LED Lifespan L70	5 YR Product Warranty
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- Fresnel optics for improved glare control
- Tough, impact resistant IK10 housing
- Plug & Play Options:
 - Grafham High Output Emergency Pack
 - Alwen Zhaga Microwave sensor
 - Alwen Zhaga PIR Sensor
 - Alwen Zhaga truSmart PIR sensor

THINK! LUMENS NOT WATTS

truSmart intelligent controls
Compatible

plug+play Enabled

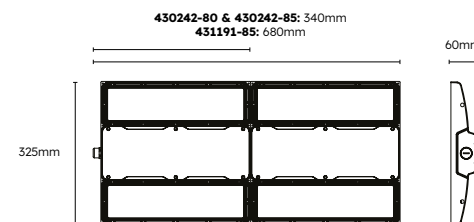
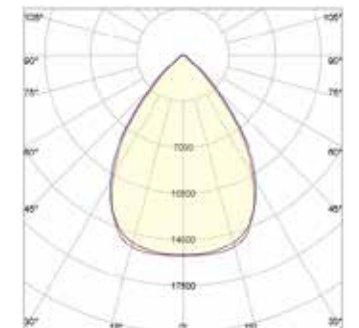
 Linear High Bay Emergency Part No. 430964	 Alwen Zhaga PIR Part No. 430568	 Alwen Zhaga Microwave Part No. 430569	 Crown Zhaga truSmart PIR Part No. 430625
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Part No.	Description	Watts	Kelvin	Lumens	Lm/W
430242-80	Belmont Linear High Bay 25° x 80° Optic - Grey	180W	5000K	27,925	155
430242-85	Belmont Linear High Bay 85° Optic - Grey	180W	5000K	28,000	155
431191-85	Belmont Linear High Bay 85° Optic - Grey	100W/120W/150W	5000K	18,000/21,600/27,000	180

Option No.	Description	Lumens
430964	Grafham Linear High Bay ESEL3 Emergency	700
401754	Remote Control	
430568	Alwen Zhaga Plug & Play PIR Sensor	
430569	Alwen Zhaga Plug & Play Microwave Sensor	
430625	Crown Zhaga Plug & Play truSmart PIR Sensor	
430243	Belmont 60° Rotatable Bracket (pair)	

Technical Information	
Input	220-240V AC
Operating Temp	-30°C - +50°C
Class	1
Connection Type	1.5M Flying Lead

Distribution Curve





Sanford

For all indoor product control and enable cloud access.



Part No.	Description	Input
440018	truSmart Sanford Industrial Dual Technology Gateway	220V-240V AC



Sanford

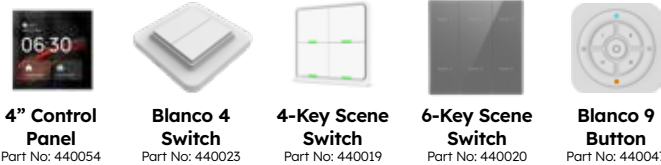
For all sports lighting & long range product control.



Part No.	Description	Input
440056	truSmart Sanford Outdoor Gateway	220V-240V AC



Controls



Part No.	Description
440054	truSmart Control Panel 4" c/w Building Scene Control APP Local Gateway
440048	truSmart Tablet 10.3" c/w Building Control App 4G
440049	Desk Stand For 10.3" Tablet
440047	truSmart Blanco 9 Button Bluetooth Remote Controller White Battery
440023	truSmart Blanco Wall Switch 4 Way Kinetic
440020	truSmart Six-Key Scene Switch Mains Version
440019	truSmart Four-Key Scene Switch Battery Version



Drivers

Suitable for: Panels and downlights.



Part No.	Description	Current
440009	Lincoln Smart LED Driver 20W Max 20-42V	250mA-500mA
440010	Lincoln Smart LED Driver 30W Max 20-42V	400mA-750mA
440011	Lincoln Smart LED Driver 40W Max 20-42V	750mA-1050mA



Crown Sensors



Part No.	Description	Range
430625	truSmart Crown Zhaga Plug & Play 12V PIR Sensor Black	Up to 15m
430821	truSmart Zhaga Plug & Play 12V Microwave Sensor Black	Up to 15m
440033	truSmart Crown Stand-Alone PIR	Up to 4m
440041	truSmart Crown Linear Microwave Sensor 12-24DC 0-10V	Up to 4m



Sports Node

Wireless mesh scene control.



Part No.	Description	Range
440057	truSmart Crown Zhaga Plug & Play 12V Outdoor Sensor Node	75 - 150m



**SAVE TIME
SAVE MONEY**

RepM3 Explained...Smarter Wireless System

Introducing RepM3 our wireless emergency lighting control system.

A robust mesh system reporting the status of your buildings emergency lighting. The system is based of industry standard DALI protocols enabling peace of mind and compliance. The system can be setup as a core local reportable system that saves all compliance data to the local screen, data then can be retrieved via USB for compliance. The Pro cloud platform version is used to store compliance data and report on the status of your building's emergency lighting. This therefore gives peace of mind that your emergency lighting is always fully functional. Any failures are immediately reported to the platform advising the exact location of any issue in a graphical floorplan format and what part of the emergency luminaire is at fault. This will enable fix first time maintenance visit.



Gateway

- Native multi-hop 240 hops per packet
- Bidirectional 868MHz mesh network
- 100m distance within a building

Mesh Network

- 868Mhz Protocol
- Secure and Resilient network
- Self-healing for maintenance

Core Local

- Local touchscreen with floorplan layout
- 225 RepM3 devices per Gateway
- Reports stored locally

Reliability

- The Schedules and timing of the function and duration test can be programmed in keeping with building requirements
- Multilayer security based on AES-128 is then extended by dynamic key generation and exchange significantly making it more immune to cyber-attacks

Rapid response

- Send immediate command to emergency luminaires
- Request status update via network flood command
- Dramatically increases network throughput and reliability

IoT Platform

- Fully History & Exports
- Compliance Reports
- Email service
- 5 years built in subscription Management of emergency lighting

Flexible solution

- Local and cloud options
- Scalable
- Fully Compliant reports

Commissioning

- RepTab commissioning tool
- Add emergency lights with scan function
- Plot onto the floorplan with in the RepTab

Pro Cloud

- Emergency Summary
- Setup Schedule plans
- Real time fault reporting



Twin Spot



- IP65**
Ingress Protection
- 600**
Emergency Lumens
- 868MHz Mesh**

Description

RepM3 Twin Spot



Bulkhead

Standard/High Output



- IP65**
Ingress Protection
- 360/900**
Emergency Lumens
- 868MHz Mesh**

Description

RepM3 Bulkhead Standard/High Output



Bulkhead

High Risk/Warehouse
Prismatic Diffuser



- IP66**
Ingress Protection
- 1000**
Emergency Lumens
- 1300**
Maintained Lumens
- 868MHz Mesh**

Description

RepM3 Bulkhead High Risk/Warehouse Prismatic Diffuser



Exit

Sign & Box ISO Legends



- 25M Viewing Distance**
- 868MHz Mesh**



- 30M Viewing Distance**
- 868MHz Mesh**

Description

RepM3 Exit Sign

RepM3 Exit Box



PinSpot

Open & Corridor Optic



- IP54**
Ingress Protection
- 260**
Emergency Lumens
- 868MHz Mesh**

Description

RepM3 PinSpot



Contact us: [Call Us 01507 328031](tel:01507328031)

sales@lumineux.co.uk



General Information



General information

B&T Associates LTD T/A Lumineux & MPWPSU.com TERMS AND CONDITIONS OF SALE ("these Terms and Conditions")

1. DEFINITIONS

In this Contract:

1.1 the following terms shall have the following meanings unless the context otherwise requires:

"Breach of Duty"
Has the meaning given to it in Clause 7.7.1;

"Catalogue"
Supplier's then current catalogue at the time of Supplier's receipt of the Order;

"Business Day"
Any day other than (i) a Saturday, (ii) a Sunday or (iii) a day when the clearing banks are not physically open for business in the City of London;

"this Contract"
These Terms and Conditions together with: (a) the relevant Order Acknowledgement (if any); or (b) (if no Order Acknowledgement) the terms of the relevant Order (except to the extent that the terms of the Order deviate from the Quotation (if any) or from the Long Term Agreement (if any), and not agreed by Supplier);

"Customer"
The customer of Supplier whose details may be more particularly set out in the Order, Order Acknowledgement or Long Term Agreement;

"Event of Force Majeure"
Has the meaning given to it in Clause 10.1;

"Fee"
The fee payable by Customer to Supplier for the supply by Supplier of the Products as stipulated in this Contract or Long Term Agreement (or if no such fee is agreed in writing or specified by Supplier, then this shall be the fee listed in Supplier's published price list current at the date of the Order);

"Liability"
Has the meaning given to it in Clause 7.7.2;

"Long Term Agreement"
Any written agreement between the Parties governing the long-term relationship concerning the supply of Products by Supplier to Customer;

"Order"
The written request by Customer to Supplier for the provision of particular Products for a particular project or enquiry, which may be in accordance with the terms of a particular Quotation or the Long Term Agreement;

"Order Acknowledgement"
The written document or written communication (if any) which Supplier dispatches to Customer (in response to Supplier's receipt of an Order), which may contain (together with any applicable Long Term Agreement) the particular details of any provision of particular Products for a particular project or enquiry and which may reflect the commercial terms of the Quotation or Long Term Agreement;

"Party"
Either Supplier or Customer;

"Payment"
Has the meaning given to it in Clause 4.1;

"Products"
Any of Supplier's products provided or to be provided by Supplier to

Customer pursuant to this Contract, as more particularly identified in this Contract or Long Term Agreement and described in the Catalogue;

"Returns Form"
Means the returns form available for download on the Supplier's website (www.bt-associates.co.uk) or requested through our returns department, as amended from time by the Supplier "Returns Policy" Means the returns policy set out on the Supplier's Returns Form

"Quotation"
The written quotation (if any) from Supplier to Customer or Customer's (direct or indirect) customer detailing the number and quantity and type of Products that Supplier is willing in principle to supply to Customer or Customer's (direct or indirect) customer for a particular project or enquiry;

"Supplier"
B&T Associates Ltd, a company registered in England and Wales under number 1987654 whose registered office is at Davis House, Manby Business Park, Manby (fax number +44 [0] 1507 328039);

"VAT"
Any tax introduced pursuant to a direction of the Council of the European Community relating to turnover taxes including value added tax as provided for in the Value Added Tax Act 1994 and supplemental legislation (whether delegated or otherwise), any tax of a similar nature which any be substituted for or levied in addition to it and any sales tax; Warranty Claim Terms and Conditions Form means the warranty claim terms and conditions form available for download on the Supplier's website (www.bt-associates.co.uk) or requested through our returns department, as amended from time by the Supplier.

1.2 References to "Clauses" are to clauses of these Terms and Conditions;

1.3 The headings to Clauses are inserted for convenience only and shall not affect the interpretation or construction of this Contract;

1.4 Words imparting the singular shall include the plural and vice versa. Words imparting a gender shall include the other gender and the neutral and references to persons shall include an individual, company, corporation, firm or partnership;

1.5 References to "includes" or "including" or like words or expressions shall mean without limitation;

1.6 references to any statute or statutory provision shall include any subordinate legislation made under it, any provision which it has modified or re-enacted (whether with or without modification) and any provision which subsequently supersedes it or re-enacts it (whether with or without modification); and

1.7 references to "written" or in "writing" (except in respect of sending a notice in accordance with Clause 11) includes in electronic form.

2. AGREEMENT

2.1 The terms of this Contract apply to the exclusion of any terms and conditions submitted, proposed or stipulated by Customer. These Terms and Conditions apply to Supplier's supply of all Products. The giving by Customer of any delivery instruction or the acceptance by Customer of delivery or collection of the Products shall constitute unqualified acceptance by Customer of these Terms and Conditions.

2.2 Save as expressly provided herein, this Contract (together with any documents referred to in it) shall operate to the entire exclusion of any other agreement, understanding or arrangement of any kind between the Parties hereto preceding the date of this Contract and in any way relating to the subject matter of this Contract and to the exclusion of any representations not expressly stated herein save for any fraudulent misrepresentations or any misrepresentation as to a fundamental matter. Each Party acknowledges that it has not entered into this Contract based

on any representation that is not expressly incorporated into this Contract.

2.3 This Contract (together with any documents referred to in it) constitutes the whole agreement and understanding of the Parties as to the subject matter hereof and there are no provisions, terms, conditions or obligations, whether oral or written, express or implied, other than those contained or referred to herein.

2.4 Subject to Clause 2.2, all materials and other particulars furnished by Supplier prior to the Quotation or Order Acknowledgement or Long Term Agreement or in Supplier's sales or marketing materials or other documents (including its catalogues, trade literature, brochures, quotations, price lists or website) or made orally by Supplier are given for general information purposes only and Customer acknowledges that it is not entering into this Contract in reliance upon any such materials or other particular (except to the extent that such materials or particular forms part of this Contract); the Products may also look different to their representation in any such materials or particulars.

2.5 Except as expressly provided otherwise in this Contract, no change to this Contract shall be binding unless it is agreed in writing by each of Supplier and Customer and in any format described as being required in the Quotation or Long Term Agreement.

2.6 In the event of any conflict between the provisions of these Terms and Conditions and the provisions of the rest of this Contract or any Long Term Agreement, then the following order of precedence shall apply:

2.6.1 the Long Term Agreement prevails over an Order, Order Acknowledgement and these Terms and Conditions; and

2.6.2 any Order Acknowledgement prevails over the Order; and

2.6.3 the Order prevails over these Terms and Conditions.

2.7 The Order shall contain:

2.7.1 a reference to the Product(s) already described by Supplier (in the Brochure or Quotation or Long Term Agreement);

2.7.2 the quantity of that Product(s) ordered with Supplier;

2.7.3 the identity of Customer; and

2.7.4 the price for that Product(s) ordered to reflect the price already given by Supplier in the relevant Quotation or Long Term Agreement or otherwise agreed in writing by Supplier.

2.8 Except to the extent of the information in an Order described in Clause 2.7, if Customer provides Supplier with an Order, purchase order, confirmation of order, specification or other document for the Products, such document shall be purely for Customer's administrative purposes only and shall not form part of this Contract.

2.9 Customer shall ensure that the Order is on the same terms as any Quotation and Long Term Agreement and is made in accordance with the terms of the Quotation or Long Term Agreement (except to the extent that Supplier has agreed in writing to the contrary). If the Parties agree that Supplier will proceed to provide the Products, then such provision shall be only on the understanding that any differences in the Order from the Quotation or Order Acknowledgement or Long Term Agreement shall have no effect unless the Parties expressly agree otherwise in writing.

2.10 This Contract shall be legally formed and the Parties shall be legally bound on the earlier of:

2.10.1 Supplier despatching its Order Acknowledgement to Customer confirming the terms on which the Parties have agreed to proceed; or

2.10.2 Supplier delivering some or all of the Products agreed in the Order or (if earlier) Supplier informing Customer that those Products are ready for collection.

2.11 It is Customer's responsibility to ensure that the Quotation, Order and Order Acknowledgement are complete and accurate and to point out to Supplier in writing anything, which is incomplete or inaccurate.

2.12 Each Order constitutes a separate contract. There may be more than one contract between the Parties in force at the same time as this Contract.

2.13 This Contract only applies to the supply of Supplier's standard products. Any bespoke products shall be subject to additional or separate terms agreed in writing between the Parties.

3. DELIVERY AND RISK

3.1 In consideration for the payment of the Fee and any other sums due by Customer, Supplier shall supply the Products referred to in the Order to Customer.

3.2 Supplier shall use its reasonable endeavours to perform its obligations within any timescales set out in this Contract, but time for performance shall not be of the essence and Supplier shall not be liable for any delays or failure to accurately perform its obligations:

3.2.1 if it has used those endeavours; or

3.2.2 if caused by any failure or delay on the part of Customer or Customer's agents, staff, officers, employees and contractors or customers or by any breach by Customer of this Contract or any other contract between the Parties; or

3.2.3 if the reason for the delay in providing the Products is because the machinery producing the Products is already working to capacity. Any timeframe for delivery in a previous contract shall be no indication of the timeframe for delivery in this Contract.

3.3 Partial delivery or performance shall be permitted. Supplier may deliver and provide the Products in instalments. Unless the Parties otherwise agree in writing, Supplier may invoice Customer for all Products covered by the Order in accordance with Clause 8.3, notwithstanding that Supplier has not yet delivered all the Products to Customer.

3.4 Delay, default or non-delivery of any instalment by Supplier shall not entitle Customer to cancel or terminate, and shall not affect, the remainder of this Contract.

3.5 Unless otherwise agreed in writing between the Parties, this Contract is for delivery of the Products CPT - Carriage Paid To (Incoterms 2010) at the place stipulated as such in the Order Acknowledgement (or if no place stipulated, then Supplier's normal location for despatch of the Products in the UK). For the avoidance of doubt, this means that delivery shall be deemed to be completed when the Supplier's nominated carrier collects the Products from the Supplier's premises. If there is any conflict between the provisions of Incoterms 2010 and this Contract, this Contract shall prevail. Sections 32 (2) and (3) of the Sale of Goods Act 1979 shall not apply to this Contract.

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<p>3.6 Notwithstanding the place of delivery as set out in clause 3.5 (including the risk and responsibility allocation in accordance with the CPT – Carriage Paid To provisions of Incoterms 2010), Supplier reserves the right to despatch the Products to a carrier selected by Supplier and arrange and pay for the carriage to Customer’s premises (as Customer’s agent), and invoice Customer for those carriage and insurance costs at the same time as invoicing for the Products.</p> <p>3.7 Supplier shall inform Customer of the estimated date on which the Products will be ready for delivery or collection.</p> <p>3.8 Customer shall ensure that it is ready for safe receipt (or, as the case may be, collection) of the Products without undue delay.</p> <p>3.9 Customer may be required to sign a delivery note and other documentation upon delivery of the Products. The signing of any such documentation by Customer shall be evidence that the Products have been delivered and in the quantities stipulated in the documentation. Customer shall inspect the Products and packaging for any obvious damage (including the sound of broken glass) and make a note of any obvious damage when signing.</p> <p>3.10 All risk in the Products shall pass to Customer upon delivery, provided that where delivery is delayed due to breach by Customer of its obligations under this Contract risk shall pass at the date when delivery would have occurred but for that breach.</p> <p>3.11 Customer shall keep the Products fully insured on Supplier’s behalf with a reputable insurance company to the reasonable satisfaction of Supplier for their full price against all risks of loss or damage from the time when the risk passes to Customer at delivery until property passes in accordance with Clause 4. On request, Customer shall produce the policy of insurance to Supplier. If the Products are lost, damaged or destroyed, Customer shall hold the proceeds of insurance for and to the order of Supplier pending Payment (as defined in Clause 4.1).</p> <p>3.12 If delivery of the Products is delayed or obstructed through Customer’s default or breach of this Contract or if Customer unreasonably declines or delays in accepting or taking delivery or receipt of the Products, then (subject to Clause 7) Supplier shall not have any Liability as a result and Supplier may (without prejudice to any other right or remedy available to it) do all or any of the following:</p> <p>3.12.1 sell the Products for Supplier’s account;</p> <p>3.12.2 cancel this Contract as regards any Products that remain to be delivered or performed;</p> <p>3.12.3 charge a reasonable storage fee for the Products; and</p> <p>3.12.4 require Customer to indemnify Supplier for any and all losses, liabilities, claims, proceedings, judgments, damages, demands, actions, costs, charges, expenses, penalties and fines suffered or incurred by Supplier as a result of Customer declining or delaying.</p> <p>3.13 Where delivery is not to the United Kingdom, Customer shall be responsible for complying with all applicable laws, regulations and codes of practice governing the importation, installation and use of the Products into the country of destination and for payment of any duties or levies thereon.</p> <p>4. TITLE</p> <p>4.1 Notwithstanding delivery (or installation), title to and ownership of the Products shall not pass to Customer until Supplier has received in full (in cash or cleared funds) all sums due to it in respect of:</p>	<p>4.1.1 the Products; and</p> <p>4.1.2 all other sums which are or which become due to Supplier from Customer on any account;</p> <p>(“Payment”).</p> <p>4.2 Until Payment, Customer shall:</p> <p>4.2.1 hold the Products on a fiduciary basis as Supplier’s bailee; and</p> <p>4.2.2 not destroy, deface or obscure any identifying mark or packaging on or relating to the Products.</p> <p>4.3 Customer may resell the Products before Payment solely on the following conditions:</p> <p>4.3.1 any sale shall be effected in the ordinary course of Customer’s business at full market value;</p> <p>4.3.2 any such sale shall be a sale of Supplier’s property on Customer’s own behalf and Customer shall deal as principal when making such a sale; and</p> <p>4.3.3 Customer shall still be responsible for paying to the full value of the Payment. If Supplier requires, Customer shall authorise and direct such third party buyer to pay to Supplier a like part of the sum due to Customer in respect of the Products sold and assign to Supplier such part of the debt owed to Customer by the third party.</p> <p>4.4 If the Products are attached to or incorporated into or mixed with any other materials or goods or substances or used in any manufacturing process, the property in the new material or good or substance shall vest until Payment in Supplier in the proportion of the value of the Products to the other constituent elements.</p> <p>4.5 Supplier may at any time until title passes under this Clause 4 without notice recover possession of the Products which are the property of Supplier. Customer hereby grants to Supplier for Supplier and its agents, staff, officers, employees and contractors an irrevocable licence to enter for that purpose any premises then occupied by or in the ownership or possession of Customer or Customer’s customer. Customer shall indemnify Supplier against all claims, losses, damages, liabilities, costs and expenses so arising.</p> <p>4.6 Supplier shall be entitled to recover payment for the Products not with standing that ownership of any of the Products has not passed from Supplier.</p> <p>4.7 On termination of this Contract, howsoever arising, Supplier’s rights contained in this Clause 4 shall remain in effect.</p> <p>5. CUSTOMER REQUIREMENTS</p> <p>5.1 Customer agrees that, as between it and Supplier, Customer shall be responsible for ensuring that:</p> <p>5.1.1 the Products meet its and its customers’ requirements and purposes and is suitable for all anticipated uses;</p> <p>5.1.2 the Products are properly installed, maintained and used in accordance with Supplier’s instructions (including as set out in the Brochure and any installation instructions supplied by Supplier on or before delivery), and installed and maintained by service people of the highest level of competence and training acting with all due care and skill; and</p> <p>5.1.3 the location of the Products is in a sensible place for installation, maintenance or other servicing (taking into</p>	<p>account the cost and feasibility of replacing the Products periodically through wear and tear or to replace a faulty Product). Customer (or Customer’s customer) shall be responsible for all costs incurred in any such installation, maintenance or servicing;</p> <p>6. WARRANTY - See separate Warranty Page.</p> <p>7. LIABILITY</p> <p>7.1 This Clause 7 prevails over all other Clauses and sets forth the entire Liability of Supplier, and the sole and exclusive remedies of Customer, in respect of:</p> <p>7.1.1 performance, non-performance, purported performance, delay in performance or mis-performance of this Contract or of any goods or services in connection with this Contract; or</p> <p>7.1.2 otherwise in relation to this Contract or entering into this Contract.</p> <p>7.2 Supplier does not exclude or limit its Liability for:</p> <p>7.2.1 its fraud; or</p> <p>7.2.2 death or personal injury caused by its Breach of Duty; or</p> <p>7.2.3 any breach of the obligations implied by Section 12 Sale of Goods Act 1979 or Section 2 Supply of Goods and Services Act 1982; or</p> <p>7.2.4 supply of a defective Product in accordance with Part I of the Consumer Protection Act 1987; or</p> <p>7.2.5 any other Liability which cannot be excluded or limited by applicable law.</p> <p>7.3 Subject to the Clause 7.2, Supplier does not accept and hereby excludes any Liability for Breach of Duty other than any Liability arising pursuant to the terms of this Contract.</p> <p>7.4 Subject to the Clause 7.2, Supplier shall not have any Liability in respect of any:</p> <p>7.4.1 indirect or consequential losses, damages, costs or expenses;</p> <p>7.4.2 loss of actual or anticipated profits;</p> <p>7.4.3 loss of contracts;</p> <p>7.4.4 loss of anticipated savings;</p> <p>7.4.5 loss of revenue;</p> <p>7.4.6 loss of goodwill;</p> <p>7.4.7 loss of reputation;</p> <p>7.4.8 loss of business;</p> <p>7.4.9 loss of operation time; or</p> <p>7.4.10 loss of opportunity;</p> <p>suffered by Customer in respect of this Contract whether or not such losses were reasonably foreseeable or Supplier or its agents or contractors had been advised of the possibility of Customer incurring such losses. For the avoidance of doubt, Clauses 7.4.2 to 7.4.10 apply whether such losses are direct, indirect, consequential or otherwise.</p>	<p>7.5 Subject to Clause 7.2, the total aggregate Liability of Supplier arising out of or in connection with all claims in aggregate (including warranty claims and losses relating to the breach of warranty) shall be limited to the greater of:</p> <p>7.5.1 £5,000; or</p> <p>7.5.2 200% of the total sums paid and 200% of the total other sums payable (in aggregate) by Customer to Supplier under this Contract in respect of the particular Products for which there are such claims.</p> <p>7.6 The limitation of Liability under Clause 7.5 has effect in relation both to any Liability expressly provided for under this Contract and to any Liability arising by reason of the invalidity or unenforceability of any term of this Contract.</p> <p>7.7 In this Clause 7:</p> <p>7.7.1 “Breach of Duty” means the breach of any (i) obligation arising from the express or implied terms of a contract to take reasonable care or exercise reasonable skill in the performance of the contract or (ii) common law duty to take reasonable care or exercise reasonable skill (but not any stricter duty); and</p> <p>7.7.2 “Liability” means liability in or for breach of contract, Breach of Duty, misrepresentation, restitution or any other cause of action whatsoever relating to or arising under or in connection with this Contract, including liability expressly provided for under this Contract or arising by reason of the invalidity or enforceability of any term of this Contract (and for the purposes of this definition, all references to “this Contract” shall be deemed to include any collateral contract).</p> <p>8. FEES</p> <p>8.1 Customer shall pay to Supplier the Fee and other sums due under this Contract.</p> <p>8.2 Where Supplier requires a particular part of a Fee to be paid in advance of delivery of the Products, delivery of the Products is conditional on Supplier first receiving the advanced Fee and any other sums due in cleared funds in full from Customer.</p> <p>8.3 Unless otherwise stipulated in the Quotation or Long Term Agreement (or otherwise agreed between the Parties in writing), Supplier may issue invoices to Customer for the Fee (or the relevant part) and other sums due in connection with the Fee upon delivery (or making available for collection) of the Products (or part of them).</p> <p>8.4 Subject to Clause 8.2, unless otherwise provided in the Quotation or Long Term Agreement, Customer shall pay Supplier for any sums due under this Contract within 30 days after the date of the invoice for the relevant sums.</p> <p>8.5 All Fees and sums due under this Contract are exclusive of any value added tax or other duties or taxes (if applicable) which shall be payable in addition at the same time as payment of the Fees and other sums due.</p> <p>8.6 Customer shall pay Supplier by any payment method reasonably stipulated by Supplier.</p> <p>8.7 Unless otherwise stipulated in this Contract or agreed in writing between the Parties, payment shall be in the currency in force in England from time to time.</p> <p>8.8 Time for payment shall be of the essence.</p>
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General information

- 8.9 Payment shall be deemed made when Supplier has received cleared funds in full.
- 8.10 Payment of all sums due to Supplier under this Contract shall be made by Customer in full without any set-off, deduction or withholding whatsoever.
- 8.11 If Customer is late in paying any part of any monies due to Supplier under this Contract or any other agreement between the Parties, Supplier may under this Contract or by any statute, regulation or bye-law) do any or all of the following:
- 8.11.1 charge interest on the amount due but unpaid at the annual rate of interest set under Section 6 of the Late Payment of Commercial Debts (Interest) Act 1998 from time to time from the due date until payment (after as well as before judgment), such interest to run from day to day and to be compounded monthly; and
- 8.11.2 sell or otherwise dispose of any Products which are the subject of any Order, whether or not appropriated thereto, and apply the proceeds of sale to the overdue payment; and
- 8.11.3 suspend the performance of this Contract and any other agreement between Supplier and Customer until payment in full has been made.
- 9. TERM AND TERMINATION**
- 9.1 This Contract shall commence when it becomes legally binding in accordance with Clause 2.10 and, unless terminated earlier by either Party exercising any right of termination as set out in this Contract, shall continue in force until the later of:
- 9.1.1 Customer having paid for the Fees and all sums in full; and
- 9.1.2 Supplier having despatched all the Products.
- 9.2 Either Party may terminate this Contract immediately by notice in writing to the other Party if:
- 9.2.1 the other Party is in persistent breach of any of its obligations under this Contract or any other agreement between the Parties; or
- 9.2.2 the other Party is in material breach of any of its obligations under this Contract or any other agreement between the Parties which is incapable of remedy; or
- 9.2.3 the other Party fails to remedy, where capable of remedy, any material breach of any of its obligations under this Contract or any other agreement between the Parties after having been required in writing to remedy such breach within a period of no less than 30 days; or
- 9.2.4 the other gives notice to any of its creditors that it has suspended or is about to suspend payment or if it shall be unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986, or an order is made or a resolution is passed for the winding-up of the other Party or an administration order is made or an administrator is appointed to manage the affairs, business and property of the other Party or a receiver and/or manager or administrative receiver is appointed in respect of all or any of the other Party's assets or undertaking or circumstances arise which entitle the court or a creditor to appoint a receiver and/or manager or administrative receiver or administrator which entitle the court to make a winding-up or
- bankruptcy order or the other Party takes or suffers any similar or analogous action in consequence of debt.
- 9.3 In any event, Supplier may terminate this Contract if Customer is at least 10 Business Days' late in paying any sum due under this Contract.
- 9.4 Termination of this Contract shall be without prejudice to any accrued rights or remedies of either Party.
- 9.5 Termination of this Contract will not affect the coming into force or continuance in force of any provision which is expressly or by implication intended to come into or continue in force on or after such termination.
- 9.6 Upon termination of this Contract for any reason:
- 9.6.1 Supplier shall cease to perform this Contract; and
- 9.6.2 all outstanding Fees and any other sums shall become immediately payable, whether invoiced or not.
- 10. FORCE MAJEURE**
- 10.1 Save for obligations in respect of payment of the Fees, neither Party shall have any Liability for any breach, hindrance or delay in the performance of this Contract attributable to any cause beyond its reasonable control including any event beyond the reasonable control of either party including Acts of God, actions or demands or requirements of third parties (including hackers, suppliers, governments or supra-national authorities), insurrection, riot, civil commotion, war, hostilities, warlike operations, enemy action, national emergencies, act of terrorism, piracy, arrests, restraints or detentions of any competent authority, strikes or combinations or lock-out of workmen, epidemic, fire, explosion, storm, flood, drought, earthquake, natural disaster, natural catastrophe, accident, mechanical breakdown, third party software, failure or problems with public utility supplies (including electrical, telecoms or general internet failure), unavailability or shortage of or inability to obtain materials, equipment, containers or transportation ("Event of Force Majeure"), regardless of whether the circumstances in question could have been foreseen.
- 10.2 Each of the Parties agrees to inform the other upon becoming aware of an Event of Force Majeure, such notice to contain details of the circumstances giving rise to the Event of Force Majeure.
- 10.3 The performance of each Party's obligations shall be suspended during the period that the circumstances persist and such Party shall be granted an extension of time for performance equal to the period of the delay.
- 10.4 Each Party shall bear its own costs incurred by the Event of Force Majeure.
- 10.5 Should any performance of obligations be delayed under this Clause 10, each Party shall nevertheless accept performance as and when the other shall be able to perform.
- 10.6 If the Event of Force Majeure continues without a break for more than one month, either Party may terminate this Contract immediately by notice to the other, in which event neither Party shall have any Liability by reason of such termination.
- 10.7 If Supplier has contracted to provide identical or similar products to more than one customer and is prevented from fully meeting its obligations to Customer by reason of an Event of Force Majeure, Supplier may decide at its absolute discretion which contracts it will perform and to what extent.

11. NOTICES

- 11.1 Any notice or other communication required or authorised to be given under this Contract shall be in writing and may be served by personal delivery or by recorded delivery letter (if to an address in the same country) or by overnight courier or by facsimile addressed to the relevant Party at its address stated in this Contract or at such other address or facsimile number as is notified by the relevant Party to the other for this purpose from time to time or at the address or facsimile number of the relevant Party last known to the other.
- 11.2 Any notice so given by post shall be deemed to have been served two Business Days after the same shall have been despatched to the overnight courier or Post Office and any notice so given by facsimile shall be deemed to have been served upon receipt of an answer back signal from the receiving machine, and in proving such service it shall be sufficient to prove that the letter or facsimile was properly addressed or numbered and, as the case may be, despatched or an answer back signal received.

12. ASSIGNMENT

- 12.1 Subject to any assignee (in the case of an assignment) confirming in writing to be bound by the provisions of this Contract, Supplier may assign, transfer, novate or subcontract its rights, liabilities or obligations under this Contract either in whole or in part to any other person, firm or company. Supplier shall promptly give notice to Customer of any assignment, transfer or novation.
- 12.2 Customer shall not assign, transfer, novate or charge or purport to assign, transfer, novate or charge this Contract or any of its rights, liabilities or obligations under this Contract without the prior written consent of Supplier.

13. GENERAL

- 13.1 No failure or delay by either Party in exercising any right under this Contract shall operate as a waiver of such right or extend to or affect any other or subsequent event or impair any rights or remedies in respect of it or in anyway modify or diminish that Party's rights under this Contract.
- 13.2 If any Clause or other provision in this Contract shall become or shall be declared by any court of competent jurisdiction to be invalid or unenforceable, such invalidity or unenforceability shall in no way affect any other Clause or provision or part of any Clause or provision, all of which shall remain in full force and effect.
- 13.3 Nothing in this Contract shall create or be deemed to create a partnership, an agency or a relationship of employer and employee between the Parties.
- 13.4 A person who is not a Party to this Contract has no rights under the Contracts (Rights of Third Parties) Act 1999 in respect of any term of this Contract.
- 13.5 This Contract shall be governed by and construed in accordance with English law and Customer hereby submits to the jurisdiction of the English courts. The parties irrevocably agree that the English courts shall have exclusive jurisdiction over any claim or matter brought by Customer in relation to this Contract. Nothing in this Clause 13.5 shall limit the right of Supplier to take proceedings against Customer in any other court of competent jurisdiction. All dealings, correspondence and contacts between the parties shall be made or conducted in the English language.

14. STOCK CLEANSE POLICY

- 14.1 The company does operate a stock cleanse and goods return policy for stockists of the Lumineux range of products, please contact your Account Manager for details and terms. A full copy of our Stock Cleanse Policy can be obtained by email to returns@lumineux.co.uk.

Version: 01/01/2025

BATTERIES & BATTERY WARRANTIES

All Lumineux emergency products that are supplied with rechargeable batteries have a battery operation design life of > 4 years (subject to correct usage and installation)

Unless otherwise stated, Lumineux offer the following warranties on its emergency batteries:

Product warranty of 5 years have 2 year battery warranty.
Product warranty of 3 years have 1 year battery warranty.
All E-SEL3 labelled products have a product warranty of 5 years and a 5 year battery warranty as standard.

Operation temperatures

0° to +30° unless specified on data sheet as standard operating temperatures.

Specific Battery Warranty Conditions

The above warranties are subject to the products being installed and maintained in accordance with the instructions supplied with the products and/or as set out in the product specification sheet.

Particular notice should be taken of all guidance and specifications quoted with regards to installing batteries in high ambient temperatures. Installing Lumineux emergency products in environments with higher ambient temperatures than those specified will void all warranties on those products.

Warranty Obligations

The company's obligations under this warranty is to repair and/or replace any defective parts or products at our sole discretion, providing such defective parts or products are brought to our attention within the specified warranty time period. B&T Associates Ltd / Lumineux is not responsible for any costs associated with the removal or replacement of defective parts and/or products or installation costs or consequential damages, however caused. In any event the maximum liability of the company under this warranty shall not exceed the purchase price of the product.

On-site warranty

All Lumineux & truSmart products comply with their published specification and are covered by our warranty cover, as fully outlined in our B&T Associates Ltd Terms & Conditions. Standard warranty terms include, but are not limited to, that within the warranty period from the date of invoice, Lumineux will, at our discretion, offer to repair, refurbish, or replace a failed product or, if the product is no longer available, offer a closest alternative product replacement. Any product deemed not to have been installed, maintained, and tested in accordance with our instructions or is not compliant with all current and relevant electrical installation regulations, or is not deemed to be in accordance with generally accepted installation practice, will invalidate the warranty.

Onsite Warranty

In addition to the standard warranty of the product, Lumineux & truSmart will offer onsite warranty on products that carry a 5-year or more warranty. For the onsite warranty, you must register your project on our website within 90 days with proof of purchase for a unique reference number. You will need this unique code if you need to make a claim. Unregistered products will default to the standard warranty terms. The on-site warranty applies in addition to the terms and conditions contained in our standard warranty. This policy includes replacement products of the same specification or similar and will cover fair and reasonable on-site charges that relate only to faulty Lumineux products that have been properly installed and used for their intended purpose. For the full On-site Warranty Terms and Conditions, please see www.lumineux.co.uk/warranty, alternatively contact us at sales@lumineux.co.uk and a copy will be provided to you.

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WARRANTY

- 6.1 Subject to the rest of this Clause 6, Supplier warrants that: the Products shall be free from material defects in design, workmanship and materials and conform to the specification for the Products set out in the Brochure or specification sheet.
- 6.2 The warranty set out in clause 6.1 above shall be in addition to any other warranty statement set out on the specification sheet or otherwise as expressly agreed in writing between the Supplier and the Customer.
- 6.3 Supplier is not responsible for any services or products not expressly stipulated in this Contract that Supplier will provide. Except for any matter upon which Supplier specifically agrees in writing with Customer to advise or do, Supplier shall not have any Liability for advising on, or failing to advise on, or doing, or failing to do, anything else (including on any laws, rules, regulations, by-laws or codes of practice).
- 6.4 Supplier shall not have any Liability whatsoever to the Customer for loss of or damage to Products in transit.
- 6.5 Where a warranty claim is made by Customer under Clause 6.1, then, subject to Clause 6.7, Supplier shall at its option:
- 6.5.1 replace or repair; or
 - 6.5.2 repay an appropriate portion of the purchase price of; or
 - 6.5.3 provide a credit note in respect of a reasonable part of; the delivered Products which are not in conformance with the warranty set out in Clause 6.1. For the avoidance of doubt, the remedies set out in this Clause 6.5 are the sole remedies available to the Customer in respect of a claim made under clause 6.1
- 6.6 Supplier shall not have any Liability for providing Products to the extent caused by Supplier's compliance with and reliance on Customer's instructions or requirements.
- 6.7 Supplier's Liability for defective or damaged Products and any warranty claim is subject to:
- 6.7.1 Customer having signed and returned to the Supplier a copy of the Warranty Claim Terms and Conditions Form;
 - 6.7.2 Customer notifying Supplier of any claim promptly upon discovery of the defect or damage and in any event within one month of discovery, specifying with reasonable detail the way in which it is alleged that the Products do not conform to this Contract;
 - 6.7.3 Customer having provided Supplier with Supplier's delivery note number and such other information and documentation as Supplier reasonably requires at the same time as the notice in Clause 6.7.1;
 - 6.7.4 Customer showing to Supplier's reasonable satisfaction that the defect or damage is solely attributable to Supplier's (or Supplier's subcontractors') defective design, materials or workmanship in the Products and not: (a) wear or tear from normal use; or (b) any installation or servicing by anyone after delivery by Supplier (including the carrier); (c) the combination, incompatibility, attachment, affixation, incorporation or mixing of the Products with any other goods, products, materials or substances; or (d) loss or damage of the Products caused during transit. If Customer is not happy with Supplier's decision on these issues, Customer may pay for an independent expert (subject to the Parties agreeing on an appropriate expert) to decide on whether Supplier has acted reasonably, and the expert's determination shall be final and binding on the Parties and not subject to appeal or other judicial review, save in the case of manifest error by the expert; if the expert decides that Supplier's decision was unreasonable, Supplier shall instead pay for the reasonable costs of the expert;
- 6.7.5 the Products having not been: (a) misused or subjected to neglect, improper or inadequate care or carelessness (including being hit, dropped, kicked, knocked or pushed), abnormal working or usage conditions; or (b) involved in any accident or attempt at repair, replacement, alteration, change or modification or inspection within the Product itself except by or on behalf of Supplier or as approved by Supplier or in accordance with Supplier's instructions; or (c) dealt with or installed or wired or used or stored contrary to good trade practice or any oral or written instructions, advice or recommendation of Supplier (including in the Brochure or any installation instructions provided on or before delivery);
- 6.7.6 Customer allowing and procuring Supplier (or Supplier's representatives) the opportunity to have access to, inspect, test and remove the Products;
- 6.7.7 Customer having paid for the Products in full; and
- 6.7.8 upon Supplier's request, Customer returning the defective or damaged Products strictly in accordance with the Returns Policy (carriage and insurance paid at Customer's risk) to Supplier's premises or such other location stipulated by Supplier anywhere in the world and carefully packed to avoid damage in transit (and Section 36 of the Sale of Goods Act 1979 shall not apply). Unless and until Supplier receives the Products, Customer shall hold the Products safely and securely in good condition.
- 6.8 The warranty contained in this Clause 6 is specifically limited to Customer. No warranty is made to any other person, whether subsequent buyer or user or customer, or to any bailee, licensee, assignee, employee, agent or otherwise.
- 6.9 If Customer makes an invalid claim under the warranty, Supplier may charge Customer for its fees and costs of examining, testing, storing, repairing and replacing the Products and dealing with the claim and removing and delivering the Products. For more information on these fees and costs, please refer to the Warranty Claim Terms and Conditions Form.
- 6.10 Subject to clause 6.2, except where expressly provided for within this Contract, Supplier expressly excludes all conditions, warranties, terms and obligations, whether express or implied by statute, common law or otherwise, to the fullest extent permitted by law in respect of the supply of the Products.

SURGE PROTECTION DEVICES

Surge Protection Devices (SPD) are a requirement under the 18th Edition of the Wiring Regulations and essential in protecting equipment from damage. The Institution of Engineering and Technology (IET) Wiring Regulations (BS 7671) has updated its guidance on SPD in successive editions.

For further information on SPD with a Lumineux product, please contact technical@lumineux.co.uk


Technical Glossary

ac (-)	Alternating Current, as found in the mains power supply.
Ampere (Amp)	The unit for measuring rate of electrical current: Current (Amps) = Power (Watts) / Voltage (Volts).
Ballast	A device that limits the amount of current in an electrical circuit.
Beam Angle	The degree of width that light emits from a lightsource. It refers to the angle between the opposing points on the beam axis where the intensity drops to 50%. There are many descriptions for the beam angle from narrow spot to wide flood.
Current	The flow of electrons. Measured (in amps) as the number of particles passing a given point per unit of time. Current can be induced by application of an electric field through a conductor or by changing the electric field across a capacitor.
COB	Abbreviation for Chip on Board. Chip on Board technology groups LEDs together in clusters straight onto the circuit boards. The benefits of COB LEDs are the extremely bright light output, long lamp life, high Lumen output and a greater level of efficiency.
Colour Rendering Index (CRI) The quality of light	A measure of the ability of a light source to reproduce the colours of a reference light. CRI is rated on a scale from 1-100. The lower the CRI rating, the less accurately colours will be reproduced. A light source with a CRI = 100 (Ra) would be a perfect reproduction.
Colour Temperature	Can simply be described as the colour characteristics of a light source. Colour temperature is measured in degrees Kelvin. A low colour temperature produces a warm yellowish light and a high colour temperature gives a cold blue light. Usually ranging from warm (yellowish) to daylight (very blue).
DALI	Abbreviation for Digital Addressable Lighting Interface, where each driver and control component such as a sensor or switch has a unique address on the lighting installation. This allows for configuration of the lighting installation and flexibility in the future.
Diffuser	Optical element used to diffuse light to improve uniformity.
Dimming	Many Lumineux luminaires are available as a dimmable version. Generally this requires a different driver to the standard fixed output driver and also may require additional wiring on site to operate/control the dimming function.
Driver	The driver is often the critical component in a LED luminaire or lamp, more so than the LED chip itself. The driver has to be matched to the power requirements of the LED chip and also have quality components. Drivers that use inferior components such as capacitors will fail before the rated life of the LED chip, reducing the claimed life by as much as 50%.
Efficacy	Used to describe the efficiency of a lamp and is measured in lumens per watt (Lm/w). To determine the efficacy of a lamp you divide the lumen output of the lamp by the watts consumed.
Emergency Lighting	Facilitates the safe evacuation of an area in the event of a mains failure. The positioning and number of emergency lighting luminaires is detailed in the British Standard, BS5266. It is vital that emergency lighting is maintained correctly to ensure batteries are conditioned so it operates when required.
E-SEL3	E-SEL3 gives the installer the option to select between the emergency function of Self-Test or Manual. E-SEL3 use the latest LiFePO4 battery technology and carries a full 5-year battery warranty.
Fire Rated	A fire rated downlight incorporates materials that will expand when heated above a certain temperature to block any gaps and maintain the ability to keep a fire from spreading to other areas of the structure. The fire rating is only approved after the product has been tested and shown to withstand exposure to fire within certain time limits.
Flood Light	A lamp that provides a broad beam intended to light a general area.
Frequency	Applies to AC only and is the number of sine waves per second. The power supply wavelength fluctuates and is measured in Hertz.
Inrush Current	Components such as drivers can have high inrush currents for milliseconds due to the use of capacitors, this should be considered when specifying switching and breaker ratings.
Kelvin	The SI unit used to measure and denote colour temperature, degrees Kelvin.
kWh	Kilo-Watt-hour is the typical billing unit for electricity costs and represents 1kw of power over a 1 hour duration.
LED	Abbreviation for Light Emitting Diode. An electronic semiconductor device that emits light when electricity is passed through it.

Technical Glossary

Light Engine	LED light engine or LLE is the combination of one or more LED modules, together with an LED driver meaning it is ready to be fixed in the luminaire.
LM-80	In order to facilitate a comparison of the long term performance between different LEDs, the LED industry developed a standard, IES LM-80-08, which specifies how LED manufacturers and lighting manufacturers can test LED components to determine their performance over time. The LM-80 standard calls for operating a set of LED devices for a minimum of 6,000 hours under well controlled operating conditions (e.g. a constant DC drive current in a thermal chamber where the LED temperature and surrounding air temperature are controlled within specified limits). The LED samples are regularly removed (e.g. every 1,000 hours) from the thermal chamber in order to test relevant electrical and optical parameters for each LED, including forward voltage, light output, and colour point. Once the test reaches at least 6,000 hours, all test data is summarised in a comprehensive LM-80 test report.
TM-21	For many applications it is important to estimate when the light output will drop below 70% of the initial light output. However, given their excellent long-term performance, white LEDs typically exhibit only a small drop in light output after 6,000 hours. Therefore, the LED industry adopted a method, described in IES TM-21-11, to fit an exponential lumen maintenance model to actual LM-80 data. This model can then be used to project the average lumen maintenance of an LED product beyond the actual number of operating hours tested.
LM-70	Lumen maintenance is a prediction of the number of hours an LED will operate before it fades below a useful level of intensity. Currently, lumen maintenance reporting assumes that dropping below 70% of initial lumen output is the end-of-life for the emitter. Hence, L70 predicts when the LED reaches 70% of initial lumen output.
Lumens Per Circuit Watt (LM/W)	A calculation of the efficiency of a fitting. Lumens (4000) ÷ Wattage (50W) = 80LM/W.
Lumen Depreciation (L70) - Reduction of light output from the fitting	Lumen depreciation reflects the overall performance of a light source through its life. All light sources will encounter lumen depreciation. Factors such as poor thermal management or over voltage may accelerate lumen depreciation. Light levels can be defined as L90, L80 or L70. This is the point at which the Lumen output has depreciated to 90%, 80% or 70% of its original lumens.
Luminous Flux	The overall light output of a lamp or luminaire measured in lumens.
Lux	A measure of the intensity of light is measured by luminous flux per unit area. One lux is equal to one lumen per square metre.
Maintained Emergency	A maintained emergency luminaire is able to be used for both general and emergency lighting. A second live cable allows it to be turned on/off as required and detect a mains power circuit failure.
Microwave Sensor	The sensor emits low power microwaves that form a pattern in the area covered. When movement is detected the sensor turns the light source on. Microwave sensors are only recommended for indoor use as they are sensitive to movement and not heat.
Non-Maintained Emergency	A non-maintained emergency luminaire ONLY operates in emergency mode and is not for general lighting.
Photocell	A photocell / dusk till dawn sensor detects the level of daylight and adjusts accordingly. It changes the resistance depending on how much light is shining onto the sensor and activates or de-activates the light.
PIR (Passive Infrared)	A PIR is a device that is used to detect motion through infrared radiation. When a person walks past the sensor it picks up the change in the sensor field and activates the PIR.
Plug & Play	Luminaire ranges featuring the 'Plug & Play' symbol are cross compatible with Emergency Packs/Sensor Modules.
Power Supply	Device that supplies electricity or energy. Most LED power supplies convert line voltage (240V AC) to 12 & 24V DC.
RGBW	RGBW stands for the colours Red, Green and Blue. They are the 'primary' light colours which come together to make other colours. While in LED RGBW lighting systems, Red Green and Blue LEDs are used together to produce many possible colours and provide unique lighting effects.
Self-Contained	The most common type of Emergency lighting luminaire, where all of the components are within one Emergency luminaire. This can include gear boxes connected directly to individual luminaires but outside the main luminaire housing. If within 1m, it is classed as self-contained.
SMD	Abbreviation for Surface Mount Device. SMDs are very small LEDs which are attached to a circuit board. Surface Mounted Device can be grouped together to achieve a higher level of brightness than standard LEDs.
Wattage	The power consumed by the LED.

IP Rating




The International Protection Rating / Ingress Protection Rating consists of the letters IP followed by two digits and an optional letter as defined in the international standard EN60529. The IP rating classifies the degrees of protection against dust, moisture and intrusion of solid objects. The IP number is split, the first digit represents protection against dust particles and the second digit represents the protection against moisture.

The table below shows the digits that conform with IP Rating.

First Numeral	Short Description – Example IP6X	Second Numeral	Short Description – Example IP5X
0	Non-protected	0	Non-protected
1	Protected against solid objects greater than 50mm	1	Protected against dripping water
2	Protected against solid objects greater than 12mm	2	Protected against dripping water when tilted up to 15°
3	Protected against solid objects greater than 2.5mm	3	Protected against spraying water
4	Protected against solid objects greater than 1.0mm	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against heavy seas

IK Rating



The IK rating indicates the level of protection provided by enclosures against external mechanical impact, defined by standard IEC 62262 and IEC 60068-2-75:1997. IK ratings are identified by a code that consists of the letters IK followed by two digits. The two digits range from 00 to 10 and relate to how well the enclosure resists the impact of energy levels measured in joules.

IK Rating	Protected against	Equivalent
IK00	Not protected	
IK01	0.14 joules impact.	Impact of 0.25kg mass dropped from 56mm above impacted surface.
IK02	0.2 joules impact.	Impact of 0.25kg mass dropped from 80mm above impacted surface.
IK03	0.35 joules impact.	Impact of 0.25kg mass dropped from 140mm above impacted surface.
IK04	0.5 joules impact.	Impact of 0.25kg mass dropped from 200mm above impacted surface.
IK05	0.7 joules impact.	Impact of 0.25kg mass dropped from 280mm above impacted surface.
IK06	1 joules impact.	Impact of 0.25kg mass dropped from 400mm above impacted surface.
IK07	2 joules impact.	Impact of 0.5kg mass dropped from 400mm above impacted surface.
IK08	5 joules impact.	Impact of 1.7kg mass dropped from 300mm above impacted surface.
IK09	10 joules impact.	Impact of 5kg mass dropped from 200mm above impacted surface.
IK10	20 joules impact.	Impact of 5kg mass dropped from 400mm above impacted surface.



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